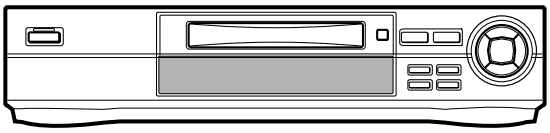
aiwa
SERVICE

XD-DV481 HRJ (S)



SERVICE MANUAL

DVD PLAYER

BASIC DVD/CD MECHANISM: DP-4RM

This Service Manual contains information about the difference between XD-DV487HRJ(NH), XD-DV485HRJ(NH) and XD-DV480HRJ(NH).
If requiring the other information, see Service Manual of XD-DV48HRJ(NH), XD-DV485HRJ(NH) and XD-DV480HRJ(NH) (S/M Code No. 09-01A-358-1N2).

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S/M Code No. 09-023-358-1S2

SUPPLEMENT

DATA

ACCESSORIES PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
		O	1	S8-35R-S00-26W	INSTRUCTION ASSY	a
		O	2	S7-11R-2N0-56A	REMOTE CONTROLLER ASSEMBL D1(	a
		O	3	S6-11R-1G0-01A	PLUG ASSY 1WAY YELLOW GLOBAL	a
		O	4	S6-11R-2G0-01A	PLUG ASSY 2WAY RED/WHITE	a

ELECTRICAL PARTS LIST - 1/9

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
INTERFACE		O	BC 101	S6-360-04C-000	COIL,BFS3550R2FD8	a
INTERFACE		S	BD 101	87-070-173-010	DIODE,S1WBA60	a
INTERFACE		O	C 100	87-010-415-010	CAP,10M-50V	a
INTERFACE	!	O	C 101	S6-240-88N-000	CAP,MPX104K 275VAC	a
INTERFACE	!	O	C 102	S6-240-88N-000	CAP,MPX104K 275VAC	a
INTERFACE	!	O	C 103	S0-2TF-H68-0M0	CAP,E 68UF-400V	a
INTERFACE		X	C 104	SC-N22-3AK-948	CAP,0.022UF 50V	a
INTERFACE	!	O	C 105	87-016-375-010	CAP,0.01UF-630V	a
INTERFACE	!	O	C 106	S6-240-87B-000	CAP,100P-1KV	a
INTERFACE		X	C 109	SC-Q47-32K-409	CAP,0.047UF-50V	a
INTERFACE		O	C 114	87-012-379-010	CAP,3300PF-400V	a
INTERFACE		O	C 116	87-016-134-080	CAP,E 470UF-25V M FM	a
INTERFACE		O	C 118	87-010-060-080	CAP,E 100-16V	a
INTERFACE		O	C 119	87-010-408-040	CAP,E 47UF-50V	a
INTERFACE		O	C 121	SC-E22-76F-638	CAP,E 220UF-16V	a
INTERFACE		O	C 123	SC-E10-86F-6CM	CAP,E 1000UF-16V M FM5 BU	a
INTERFACE		O	C 124	SC-E10-86F-6CM	CAP,E 1000UF-16V M FM5 BU	a
INTERFACE		O	C 125	87-010-375-080	CAP,E 330-10V	a
INTERFACE		O	C 126	87-016-134-080	CAP,E 470UF-25V M FM	a
INTERFACE		O	C 127	87-010-385-010	CAP,E 220UF-25V	a
						XD-DV481 HRJSC
INTERFACE		X	C 128	SC-Q47-32K-409	CAP,0.047UF-50V	a
INTERFACE		O	C 129	SC-E47-7CD-638	CAP,E 470UF-10V	a
INTERFACE		O	C 130	87-010-060-080	CAP,E 100-16V	a
INTERFACE		O	C 131	87-010-060-080	CAP,E 100-16V	a
INTERFACE		O	C 134	87-010-060-080	CAP,E 100-16V	a
INTERFACE		O	C 137	SC-E47-7CD-638	CAP,E 470UF-10V	a
INTERFACE		O	C 140	SC-E47-7CD-638	CAP,E 470UF-10V	a
INTERFACE		X	C 403	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 405	87-A10-205-080	CAP,E 470-6.3V	a
INTERFACE		X	C 406	SC-N10-30F-678	CAP,0.01-16V	a
INTERFACE		O	C 407	87-010-552-040	CAP,E 22-16V	a
INTERFACE		O	C 408	87-015-681-080	CAP,E 10-16V	a
INTERFACE		O	C 409	87-A10-205-080	CAP,E 470-6.3V	a
INTERFACE		O	C 410	87-010-552-040	CAP,E 22-16V	a
INTERFACE		X	C 411	SC-N10-20K-518	CAP,1000P-50V	a
INTERFACE		X	C 412	SC-N10-10K-418	CAP,100P-50V	a
INTERFACE		O	C 413	87-015-681-080	CAP,E 10-16V	a
INTERFACE		X	C 414	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 415	87-015-681-080	CAP,E 10-16V	a
INTERFACE		X	C 416	SC-N10-20K-518	CAP,1000P-50V	a
						XD-DV481 HRJSC
INTERFACE		X	C 417	SC-N10-10K-418	CAP,100P-50V	a
INTERFACE		X	C 418	SC-N39-20F-668	CAP,3900P-16V	a
INTERFACE		O	C 419	87-010-552-040	CAP,E 22-16V	a
INTERFACE		X	C 420	SC-N39-20F-668	CAP,3900P-16V	a
INTERFACE		O	C 421	87-010-552-040	CAP,E 22-16V	a
INTERFACE		O	C 422	87-015-681-080	CAP,E 10-16V	a
INTERFACE		X	C 424	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		X	C 425	SC-N10-30F-678	CAP,0.01-16V	a
INTERFACE		X	C 428	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 429	87-015-684-080	CAP,E 47-16V	a
INTERFACE		O	C 430	87-015-684-080	CAP,E 47-16V	a
INTERFACE		O	C 603	87-A10-205-080	CAP,E 470-6.3V	a
INTERFACE		X	C 606	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 613	87-A10-205-080	CAP,E 470-6.3V	a
INTERFACE		O	C 614	87-A10-205-080	CAP,E 470-6.3V	a
INTERFACE		X	C 664	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	C 901	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 902	87-015-681-080	CAP,E 10-16V	a
INTERFACE		X	C 905	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		X	C 906	SC-N10-40K-948	CAP,0.1UF-50V	a
						XD-DV481 HRJSC
INTERFACE		O	C 907	87-015-684-080	CAP,E 47-16V	a
INTERFACE		O	C 908	87-015-684-080	CAP,E 47-16V	a
INTERFACE		O	C 909	SC-E47-64J-638	CAP,E 47UF-35V	a
INTERFACE		X	C 910	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		X	C 911	SC-N10-40K-948	CAP,0.1UF-50V	a
INTERFACE		O	C 912	87-015-684-080	CAP,E 47-16V	a
INTERFACE		S	D 101	SD-R40-070-9AA	DIODE,10SP07U(SUF4007SP)	a
INTERFACE		S	D 102	SD-D01-000-9AC	DIODE,EU01W	a
INTERFACE		O	D 106	SD-R20-200-0AB	DIODE,HER202 BK	a
INTERFACE		S	D 107	SD-D01-000-9AC	DIODE,EU01W	a
INTERFACE		S	D 108	SD-D01-000-9AC	DIODE,EU01W	a
INTERFACE		O	D 109	SD-R10-451-0AA	DIODE,B10A45V1	a
INTERFACE		O	D 110	SD-R18-020-9AA	DIODE,ERA18-02KFRB	a
INTERFACE		O	D 112	SD-R15-402-0BA	DIODE,1N5402	a
INTERFACE		O	D 113	SD-R15-402-0BA	DIODE,1N5402	a
INTERFACE		O	D 114	SD-RRE-000-29A	DIODE,1N17	a
INTERFACE		O	D 115	SD-RRE-000-29A	DIODE,1N17	a
INTERFACE		O	D 603	87-020-465-080	DIODE,1SS133	a
INTERFACE		O	D 604	87-020-465-080	DIODE,1SS133	a
INTERFACE		O	DIG901	S3-02R-V10-3D0	DIGITRON 7-BT-273GNS FUTABA S	a

ELECTRICAL PARTS LIST - 2/9

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
INTERFACE	!	O	F 101	S5-850-11T-000	FUSE,1600MA 250V	a
INTERFACE	!	O	F 102	87-001-196-010	ICP-N10	a
INTERFACE		X	F 103	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE	!	O	F 104	87-020-840-080	ICP-N20	a
INTERFACE		O	F 602	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE		O	F 603	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE		O	F 604	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE		O	F 605	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE		O	F 606	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE		O	F 607	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a
INTERFACE	!	O	F H101	S5-860-08B-000	HOLDER,FUSE CLIP	a
INTERFACE	!	O	F H102	S5-860-08B-000	HOLDER,FUSE CLIP	a
INTERFACE	!	S	IC 101	SI-PMG-FA0-05A	IC,KA5M0365R-YDTU	a
INTERFACE	!	O	IC 102	S2-309-024-040	SENSORLTV-817B PHOTO COU	a
INTERFACE		O	IC 104	SI-SS4-310-00A	IC,KA431AZ	a
INTERFACE		S	IC 105	SI-PMG-FA0-16A	IC,KA78R08TSTU	a
INTERFACE		S	IC 106	SI-PMG-FA0-15A	IC,KA78R33TSTU	a
INTERFACE		S	IC 107	SI-PMG-FA0-15A	IC,KA78R33TSTU	a
INTERFACE		O	IC 401	SI-BB1-716-00A	IC,PCM1716E 28P	a
INTERFACE		S	IC 402	87-002-348-010	IC,NJM4580D	a
						XD-DV481 HRJSC
INTERFACE		S	IC 403	SI-PMG-FA0-17A	IC,KA78R12TSTU	a
INTERFACE		S	IC 901	SI-MCR-NE0-02C	IC,UPD780232GC-043-8BT	a
INTERFACE		O	IC 902	SI-KE7-042-00B	IC,KIA7042P	a
INTERFACE		O	JK 601	S6-12R-L00-7A0	JACK,FIBER OPTIC GP1FA550TZ	a
INTERFACE		O	JK 602	S6-12R-C00-6H0	JACK,RCA	a
INTERFACE	!	O	L 101	S6-161-45M-000	FILTER(CIRC) V-04350 LS	a
INTERFACE		O	L 102	S6-330-88G-000	COIL,CHOCK TP 5MM	a
INTERFACE		O	L 103	S6-330-88D-000	COIL,20UH	a
INTERFACE		O	L 401	87-005-208-080	COIL,100	a
INTERFACE		O	L 603	87-003-097-080	COIL,1.0M 2.3-3.4-5	a
INTERFACE		O	L 604	87-003-097-080	COIL,1.0M 2.3-3.4-5	a
INTERFACE		O	L 901	87-005-208-080	COIL,100	a
INTERFACE		O	L 902	87-005-208-080	COIL,100	a
INTERFACE		O	P 4301	S6-30R-BE0-240	CONN,BOAR2254-30P-T	a
INTERFACE		O	P 9501	S6-30R-BE0-240	CONN,BOAR2254-30P-T	a
INTERFACE		O	P 9902	S5-617-11D-000	CONN,GIL-S-04P-S2T2-EF	a
INTERFACE		O	P 9904	S5-617-11C-000	CONNECTOR WAFER,G/S GIL-S-03P	a
INTERFACE	!	O	PW 101	S5-612-92B-000	GP390 LGC 3P STRAIG P	a
INTERFACE		O	Q 107	ST-R11-510-0AA	TR,KSB1151-Y	a
INTERFACE		S	Q 108	ST-R31-990-9AF	TR,KTC3199-BL	a
						XD-DV481 HRJSC
INTERFACE		S	Q 401	ST-R12-670-9AC	TR,KTA1267-GR	a
INTERFACE		S	Q 402	ST-R12-670-9AC	TR,KTA1267-GR	a
INTERFACE		S	Q 403	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 404	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 405	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 406	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 407	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 607	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 608	ST-R31-990-9AF	TR,KTC3199-BL	a
INTERFACE		S	Q 615	ST-R12-670-9AC	TR,KTA1267-GR	a
INTERFACE	!	O	R 101	S6-140-07A-000	RES,CEM 2.7/2W	a
INTERFACE		O	R 104	SR-S56-02K-619	RES,56K-2W	a
INTERFACE		X	R 110	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 112	SR-D03-91F-608	RES,3.9-1/6W	a
INTERFACE		X	R 114	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		S	R 115	SR-D05-61F-608	RESISTOR,FIXED CARBON FILM 5.	a
INTERFACE		X	R 120	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 121	SR-D12-01F-608	RES,1.2K-1/6W	a
INTERFACE		O	R 122	SR-S12-00J-619	RES,M/F 120-1W	a
INTERFACE		X	R 123	SR-D10-01F-608	RES,1.0K-1/6W	a
						XD-DV481 HRJSC
INTERFACE		X	R 124	SR-D33-00F-608	RES,330-1/6W	a
INTERFACE		X	R 125	SR-D39-01F-608	RES,3.9K-1/6W	a
INTERFACE		X	R 126	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 127	SR-N36-01E-408	RES,3.6K-1/8W	a
INTERFACE		X	R 128	SR-N33-01F-408	RES,3.3K-1/6W	a
INTERFACE		X	R 130	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 131	SR-D22-03F-608	RES,220K-1/6W	a
INTERFACE		X	R 132	SR-D22-03F-608	RES,220K-1/6W	a
INTERFACE		X	R 140	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 141	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 144	SR-D33-00F-608	RES,330-1/6W	a
INTERFACE		X	R 145	SR-D47-00F-608	RES,470-1/6W	a
INTERFACE		X	R 401	SR-D01-02F-608	RES,10-1/6W	a
INTERFACE		X	R 402	SR-D47-01F-608	RES,4.7K-1/6W	a
INTERFACE		X	R 403	SR-D01-02F-608	RES,10-1/6W	a
INTERFACE		X	R 404	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 406	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 407	SR-D56-01F-608	RES,5.6K-1/6W	a
INTERFACE		X	R 408	SR-D22-01F-608	RES,2.2K-1/6W	a
INTERFACE		X	R 409	SR-D82-01F-608	RES,8.2K-1/6W	a

ELECTRICAL PARTS LIST - 3/9

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
INTERFACE		X	R 411	SR-D82-01F-608	RES,8.2K-1/6W	a
INTERFACE		X	R 412	SR-D68-01F-608	RES,6.8K-1/6W	a
INTERFACE		X	R 413	SR-D15-02F-608	RES,15K-1/6W	a
INTERFACE		X	R 414	SR-D56-01F-608	RES,5.6K-1/6W	a
INTERFACE		X	R 415	SR-D47-01F-608	RES,4.7K-1/6W	a
INTERFACE		X	R 416	SR-D15-02F-608	RES,15K-1/6W	a
INTERFACE		X	R 417	SR-D68-01F-608	RES,6.8K-1/6W	a
INTERFACE		X	R 418	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 419	SR-D33-00F-608	RES,330-1/6W	a
INTERFACE		X	R 420	SR-D33-00F-608	RES,330-1/6W	a
INTERFACE		X	R 421	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 422	SR-D22-01F-608	RES,2.2K-1/6W	a
INTERFACE		X	R 423	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 424	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 425	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 426	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 427	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 428	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 429	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 430	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
						XD-DV481 HRJSC
INTERFACE		X	R 432	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 601	SR-D47-02F-608	RES,47K-1/6W	a
INTERFACE		X	R 604	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 605	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 606	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 607	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 608	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 609	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 618	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 619	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 620	SR-D22-00F-608	RES,220-1/6W	a
INTERFACE		X	R 621	SR-D22-00F-608	RES,220-1/6W	a
INTERFACE		X	R 622	SR-D02-22F-608	RES,22-1/6W	a
INTERFACE		X	R 623	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 628	SR-D47-02F-608	RES,47K-1/6W	a
INTERFACE		X	R 930	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 931	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		X	R 932	SR-D33-01F-608	RES,3.3K-1/6W	a
INTERFACE		X	R 933	SR-D33-00F-608	RES,330-1/6W	a
INTERFACE		X	R 934	SR-D10-02F-608	RES,10K-1/6W	a
						XD-DV481 HRJSC
INTERFACE		X	R 935	SR-D47-02F-608	RES,47K-1/6W	a
INTERFACE		X	R 936	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 937	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a
INTERFACE		X	R 938	SR-D10-01F-608	RES,1.0K-1/6W	a
INTERFACE		X	R 943	SR-D10-00F-608	RES,100-1/6W	a
INTERFACE		X	R 944	SR-D10-00F-608	RES,100-1/6W	a
INTERFACE		X	R 951	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 952	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 953	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 954	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 955	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 956	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 957	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 958	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 959	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 960	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 961	SR-D10-03F-608	RES,100K-1/6W	a
INTERFACE		X	R 999	SR-D10-02F-608	RES,10K-1/6W	a
INTERFACE		O	RC 901	S7-12R-193-8GA	REMOTE CONTROLLER RECEI	a
INTERFACE		O	SW 601	S6-00R-SH0-2A0	SW,SL SKQ-23D15-G5-NA	a
						XD-DV481 HRJSC
INTERFACE	!	O	T 101	S6-420-23T-000	PT,SHT-023T/KSE-023T	a
INTERFACE	!	O	V 101	S6-560-04C-000	V SVC681D-10A	a
INTERFACE		O	X 901	S2-12R-J00-3A0	RESONATOR CSTLS5M00G53-A0 5MH	a
INTERFACE		O	ZD 101	SD-Z33-000-9BF	ZENER,GDZJ3.3B	a
INTERFACE		O	ZD 111	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 112	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 605	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 606	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 635	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 636	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 637	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
INTERFACE		O	ZD 638	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a
KEY		O	P 9903	S6-31R-E00-9L0	CONNECTOR ASSY GIL-S/9073AN 3	a
KEY		X	R 903	SR-D68-00F-608	RES,680-1/6W	a
KEY		X	R 904	SR-D12-01F-608	RES,1.2K-1/6W	a
KEY		X	R 905	SR-D15-01F-608	RES,1.5K-1/6W	a
KEY		X	R 906	SR-D33-01F-608	RES,3.3K-1/6W	a
KEY		X	R 907	SR-D47-01F-608	RES,4.7K-1/6W	a
KEY		X	R 912	SR-D82-00F-608	RES,820-1/6W	a
KEY		X	R 922	SR-D15-01F-608	RES,1.5K-1/6W	a

ELECTRICAL PARTS LIST - 4/9

! = ⚠ SAFTY PARTS
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All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
KEY		X	R 923	SR-D12-01F-608	RES,1.2K-1/6W	a
KEY		X	R 924	SR-D82-00F-608	RES,820-1/6W	a
KEY		X	R 925	SR-D68-00F-608	RES,680-1/6W	a
KEY		X	R 941	SR-D22-01F-608	RES,2.2K-1/6W	a
KEY		O	SW 902	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 903	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 904	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 905	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 906	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 907	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 908	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 910	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 911	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 912	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 913	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
KEY		O	SW 914	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a
MAIN		X	C 201	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 203	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 205	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 206	SC-H11-04K-942	C-CAP,0.1UF 50V	a
						XD-DV481 HRJSC
MAIN		X	C 207	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 210	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 221	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 223	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 224	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 226	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 227	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 228	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 229	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		O	C 232	87-010-075-040	CAP,E 10UF-16V	a
MAIN		X	C 237	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 238	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 239	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 240	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 241	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 242	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 245	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 250	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 255	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 256	SC-H11-04K-942	C-CAP,0.1UF 50V	a
						XD-DV481 HRJSC
MAIN		X	C 257	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 258	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 260	SC-H41-00K-112	C-CAP,10P-50V	a
MAIN		X	C 270	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		O	C 271	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 272	87-010-553-080	CAP,E 47UF-16V	a
MAIN		X	C 273	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		O	C 274	87-010-553-080	CAP,E 47UF-16V	a
MAIN		O	C 275	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 276	87-010-075-040	CAP,E 10UF-16V	a
MAIN		X	C 277	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		O	C 278	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 279	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 280	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 281	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	C 284	87-010-553-080	CAP,E 47UF-16V	a
MAIN		X	C 285	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 286	SC-H41-80K-412	CAP,CER 18PF-50V	a
MAIN		X	C 287	SC-H41-80K-412	CAP,CER 18PF-50V	a
MAIN		X	C 288	SC-H11-04K-942	C-CAP,0.1UF 50V	a
						XD-DV481 HRJSC
MAIN		X	C 2A0	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A1	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A2	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 2A3	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A4	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A5	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A6	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A7	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A8	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2A9	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2B0	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2B1	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2B2	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2B3	SC-H14-73H-942	C-CAP,CER 0.0470UF-25V	a
MAIN		X	C 2B4	SC-H45-61K-512	C-CAP,CER 560PF-50V	a
MAIN		X	C 2B5	SC-H45-61K-512	C-CAP,CER 560PF-50V	a
MAIN		X	C 2B6	SC-H13-33K-562	C-CAP,CER 0.033UF-50V	a
MAIN		X	C 2B7	SC-H13-33K-562	C-CAP,CER 0.033UF-50V	a
MAIN		X	C 2B8	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2B9	SC-H11-04K-942	C-CAP,0.1UF 50V	a

ELECTRICAL PARTS LIST - 5/9

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
MAIN		X	C 2C0	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 2C1	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 2C2	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 2C3	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 2C4	SC-H12-22K-562	C-CAP,2200F-50V	a
MAIN		X	C 2C5	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2C8	SC-H43-30K-412	C-CAP,33P-50V	a
MAIN		X	C 2C9	SC-H43-30K-412	C-CAP,33P-50V	a
MAIN		X	C 2D0	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		O	C 2D1	87-010-553-080	CAP,E 47UF-16V	a
MAIN		O	C 2D2	87-010-553-080	CAP,E 47UF-16V	a
MAIN		O	C 2D3	87-010-553-080	CAP,E 47UF-16V	a
MAIN		O	C 2D4	87-010-553-080	CAP,E 47UF-16V	a
MAIN		O	C 2D5	87-010-075-040	CAP,E 10UF-16V	a
MAIN		X	C 2D6	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2D7	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2E1	SC-H11-82K-562	C-CAP,CER 1800P-50V	a
MAIN		X	C 2M1	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2M2	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		O	C 2M3	87-010-553-080	CAP,E 47UF-16V	a
						XD-DV481 HRJSC
MAIN		O	C 2M4	87-010-075-040	CAP,E 10UF-16V	a
MAIN		X	C 2M5	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2M6	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2M7	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2M8	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2M9	SC-H12-23K-942	C-CAP,0.022UF-50V	a
MAIN		X	C 2N1	SC-H14-72K-562	C-CAP,4700F-50V	a
MAIN		X	C 2N2	SC-H11-03K-562	C-CAP,10000F-50V	a
MAIN		X	C 2N3	SC-H16-82K-562	C-CAP,CER 6800P-50V	a
MAIN		X	C 2N4	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2N5	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 2N6	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 301	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 302	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 303	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 304	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 305	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 306	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 307	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 308	SC-H11-04K-942	C-CAP,0.1UF 50V	a
						XD-DV481 HRJSC
MAIN		X	C 309	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 310	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 311	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 312	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 313	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 314	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 315	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 316	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 317	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 318	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 319	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 320	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 321	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 322	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 323	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 324	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 325	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 326	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 327	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 328	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
						XD-DV481 HRJSC
MAIN		X	C 329	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 330	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 331	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 332	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 333	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 334	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 335	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 336	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 337	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 338	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 339	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 340	SC-H11-03K-562	C-CAP,10000F-50V	a
MAIN		X	C 341	SC-H11-03K-562	C-CAP,10000F-50V	a
MAIN		X	C 380	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 382	SC-H41-00K-112	C-CAP,10P-50V	a
MAIN		X	C 391	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 392	SC-H11-03K-562	C-CAP,10000F-50V	a
MAIN		X	C 3K1	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 3K2	SC-H41-50K-412	C-CAP,CER 15P-50V	a
MAIN		X	C 3K3	SC-H41-50K-412	C-CAP,CER 15P-50V	a

ELECTRICAL PARTS LIST - 6/9

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
MAIN		X	C 501	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 502	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 503	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 504	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 506	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 507	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 508	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 509	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 512	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 513	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 514	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 515	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 516	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 517	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 518	SC-H11-04K-942	C-CAP,0.1UF 50V	a
MAIN		X	C 519	SC-H12-25F-944	C-CAP,2.2000UF-16V	a
MAIN		X	C 520	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 522	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 523	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 525	SC-H42-21K-412	C-CAP,220P-50V	a
						XD-DV481 HRJSC
MAIN		X	C 526	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 529	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 531	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 532	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 533	SC-H42-21K-412	C-CAP,220P-50V	a
MAIN		X	C 534	SC-H45-60K-412	C-CAP,56P-50V	a
MAIN		O	C 536	87-010-075-040	CAP,E 10UF-16V	a
MAIN		O	D 2A1	SD-S20-200-9CA	DIODE,DAN202K	a
MAIN		O	D 2A2	SD-S20-200-9CA	DIODE,DAN202K	a
MAIN		O	IC 201	SI-HY2-580-10C	IC,GDC25D801D	a
MAIN		O	IC 203	SI-JR3-414-00C	IC,NJM3414AM-TE1,3K/REEL	a
MAIN		O	IC 204	SI-STL-KE0-09A	IC,KIC7W53FU	a
MAIN		S	IC 205	SI-MMR-EB0-01A	IC,M11L416256A-35J	a
MAIN		O	IC 206	SI-TO7-040-00F	IC,TC7W04FU	a
MAIN		S	IC 2A1	SI-TI3-337-21A	IC,SSI33P3721	a
MAIN		S	IC 2A2	SI-JR3-414-00C	IC,NJM3414AM-TE1,3K/REEL	a
MAIN		S	IC 2M1	SI-LNR-FA0-04A	IC,FAN8727	a
MAIN		O	IC 301	SI-CU4-100-00B	IC,C-CUBE ZIVA4.	a
MAIN		O	IC 302	SI-EB1-216-16A	IC,M12L16161A-7T	a
MAIN		O	IC 303	SI-EB1-216-16A	IC,M12L16161A-7T	a
						XD-DV481 HRJSC
MAIN		O	IC 304	SI-TO7-040-00F	IC,TC7W04FU	a
MAIN		O	IC 305	SI-TO7-040-00F	IC,TC7W04FU	a
MAIN		O	IC 501	SI-HI6-417-03B	IC,HD6417034AFI20	a
MAIN		O	IC 502	SI-AL4-981-92B	IC,AT49F8192A-90TC	a
MAIN		O	IC 503	SI-EB1-141-62A	IC,NM11B416256A-35J	a
MAIN		O	IC 504	SI-SS2-402-10A	IC,KS24C021CS	a
MAIN		O	IC 505	SI-STL-ON0-03A	IC,MC74VHC374DTR2	a
MAIN		O	IC 506	SI-HY6-020-02A	IC,HS602002	a
MAIN		O	L 201	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 202	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 203	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 204	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 207	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 208	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 211	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 2A1	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 2A2	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 301	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 302	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 303	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
						XD-DV481 HRJSC
MAIN		O	L 304	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 307	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 308	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 309	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 310	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 311	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 501	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 502	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 503	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 505	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 506	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	L 507	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a
MAIN		O	P 3401	S6-30R-BE0-340	CONN,BOAR2254-30S-T	a
MAIN		O	P 5502	S6-30X-E00-115	F-CABLE,04-6232-015-010-000 E	a
MAIN		O	P 5901	S6-30R-BE0-340	CONN,BOAR2254-30S-T	a
MAIN		O	PMD02	S6-30R-FB1-0W0	CONNECTOR (CIRC),FFC/FPC	a
MAIN		O	PMD03	S6-30R-FB1-0T0	CONNECTOR FFC/FPC	a
MAIN		O	Q 2A1	ST-R15-040-9AC	TR,KTA1504-GR-T1	a
MAIN		O	Q 2A2	ST-R15-040-9AC	TR,KTA1504-GR-T1	a
MAIN		O	Q 2M1	ST-R10-300-9AA	C-TR,KRC103S-T1	a

ELECTRICAL PARTS LIST - 7/9

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
MAIN		O	Q 303	ST-R10-000-9BM	TR,UMZ1N 3K	a
MAIN		X	R 201	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 202	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 203	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 204	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 207	SR-H10-04C-622	C-RES,1M-1/16W	a
MAIN		X	R 217	SR-H01-02C-622	RES,10-1/16W	a
MAIN		X	R 218	SR-H47-00C-622	RES,470-1/16W	a
MAIN		X	R 219	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 220	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 221	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 230	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 231	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 232	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 233	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 234	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 235	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 236	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 237	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 239	SR-H00-00C-622	RES,0-1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 240	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 241	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 242	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 244	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 271	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 273	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 274	SR-H62-00C-622	RES,620-1/16W	a
MAIN		X	R 275	SR-H91-00C-622	RES,910-1/16W	a
MAIN		X	R 276	SR-H91-00C-622	RES,910-1/16W	a
MAIN		X	R 277	SR-H15-00C-622	RES,150 1/16W	a
MAIN		X	R 278	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 279	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 280	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 281	SR-H22-01C-622	RES,2.2K-1/16W	a
MAIN		X	R 291	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 292	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 293	SR-H20-01C-622	RES,2K-1/16W	a
MAIN		X	R 294	SR-H15-00C-622	RES,150 1/16W	a
MAIN		X	R 295	SR-H20-01C-622	RES,2K-1/16W	a
MAIN		X	R 296	SR-H15-00C-622	RES,150 1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 297	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 2A0	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2A1	SR-H09-12C-622	C-RES,91-1/16W	a
MAIN		O	R 2A2	SR-H12-02C-422	C-RES,M 12K-1/16W	a
MAIN		X	R 2A4	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 2A5	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2A6	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2A9	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2B1	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 2B2	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2B3	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2B4	SR-H01-82C-622	RES,18-1/16W	a
MAIN		X	R 2B5	SR-H01-82C-622	RES,18-1/16W	a
MAIN		X	R 2B6	SR-H22-02C-622	RES,22K-1/16W	a
MAIN		X	R 2B7	SR-H68-01C-622	RES,6.8K-1/16W	a
MAIN		X	R 2B8	SR-H15-03C-622	C-RES,150K-1/16W	a
MAIN		X	R 2B9	SR-H15-03C-622	C-RES,150K-1/16W	a
MAIN		X	R 2C0	SR-H39-02C-622	C-RES,39K-1/16W	a
MAIN		X	R 2C1	SR-H39-02C-622	C-RES,39K-1/16W	a
MAIN		X	R 2C2	SR-H10-01C-622	RES,1K-1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 2C3	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2C4	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 2C6	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2C7	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2C8	SR-H01-82C-622	RES,18-1/16W	a
MAIN		X	R 2C9	SR-H01-82C-622	RES,18-1/16W	a
MAIN		X	R 2D0	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2D1	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2D2	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2D6	SR-H09-12C-622	C-RES,91-1/16W	a
MAIN		O	R 2D7	SR-H04-71C-622	C-RES,M 4.7-1/16W	a
MAIN		X	R 2E6	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2E7	SR-H68-01C-622	RES,6.8K-1/16W	a
MAIN		X	R 2E9	SR-H56-01C-622	RES,5.6K-1/16W	a
MAIN		O	R 2M1	SR-H01-01D-622	C-RES,M 1-1/10W	a
MAIN		O	R 2M2	SR-H01-01D-622	C-RES,M 1-1/10W	a
MAIN		X	R 2M3	SR-H22-02C-622	RES,22K-1/16W	a
MAIN		X	R 2M4	SR-H18-02C-622	C-RES,18K-1/16W	a
MAIN		X	R 2M5	SR-H15-02C-622	RES,15K 1/16W	a
MAIN		X	R 2M6	SR-H22-02C-622	RES,22K-1/16W	a

ELECTRICAL PARTS LIST - 8/9

! = ⚠ SAFTY PARTS
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
MAIN		X	R 2M7	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 2M8	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2M9	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2N1	SR-H68-01C-622	RES,6.8K-1/16W	a
MAIN		X	R 2N2	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2N3	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2N4	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2N5	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2N6	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 2N8	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2N9	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2P1	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2P2	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 2P6	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 2Q7	SR-H68-01C-622	RES,6.8K-1/16W	a
MAIN		X	R 2Q8	SR-H33-01C-622	C-RES,3.3K-1/16W	a
MAIN		X	R 301	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 302	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 303	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 306	SR-H10-02C-622	RES,10K 1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 307	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 308	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 309	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 310	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 311	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 312	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 313	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 314	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 315	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 316	SR-H12-00C-622	RES,120 1/16W	a
MAIN		X	R 317	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 318	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 319	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 320	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 321	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 322	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 323	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 324	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 325	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 326	SR-H03-32C-622	RES,33-1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 327	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 328	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 329	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 330	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 331	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 332	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 333	SR-H03-32C-622	RES,33-1/16W	a
MAIN		X	R 335	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 340	SR-H11-81C-422	C-RES,1.18K-1/16W	a
MAIN		X	R 341	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 342	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 343	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 344	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 345	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 346	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 347	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 348	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 349	SR-H10-00C-622	RES,100-1/16W	a
MAIN		O	R 350	SR-H03-31D-622	C-RES,M 3.3-1/10W	a
MAIN		O	R 351	SR-H03-31D-622	C-RES,M 3.3-1/10W	a
						XD-DV481 HRJSC
MAIN		X	R 391	SR-H33-00C-622	RES,330-1/16W	a
MAIN		X	R 392	SR-H33-00C-622	RES,330-1/16W	a
MAIN		X	R 393	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 394	SR-H27-00C-622	C-RES,270-1/16W	a
MAIN		X	R 395	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 396	SR-H07-52C-622	RES,75-1/16W	a
MAIN		X	R 397	SR-H07-52C-622	RES,75-1/16W	a
MAIN		X	R 398	SR-H07-52C-622	RES,75-1/16W	a
MAIN		X	R 399	SR-H07-52C-622	RES,75-1/16W	a
MAIN		X	R 3K1	SR-H10-04C-622	C-RES,1M-1/16W	a
MAIN		X	R 504	SR-H68-00C-622	RES,680-1/16W	a
MAIN		X	R 507	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 508	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 510	SR-H33-00C-622	RES,330-1/16W	a
MAIN		X	R 511	SR-H33-00C-622	RES,330-1/16W	a
MAIN		X	R 512	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 513	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 514	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 517	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 518	SR-H12-01C-622	RES,1.2K-1/16W	a

ELECTRICAL PARTS LIST - 9/9

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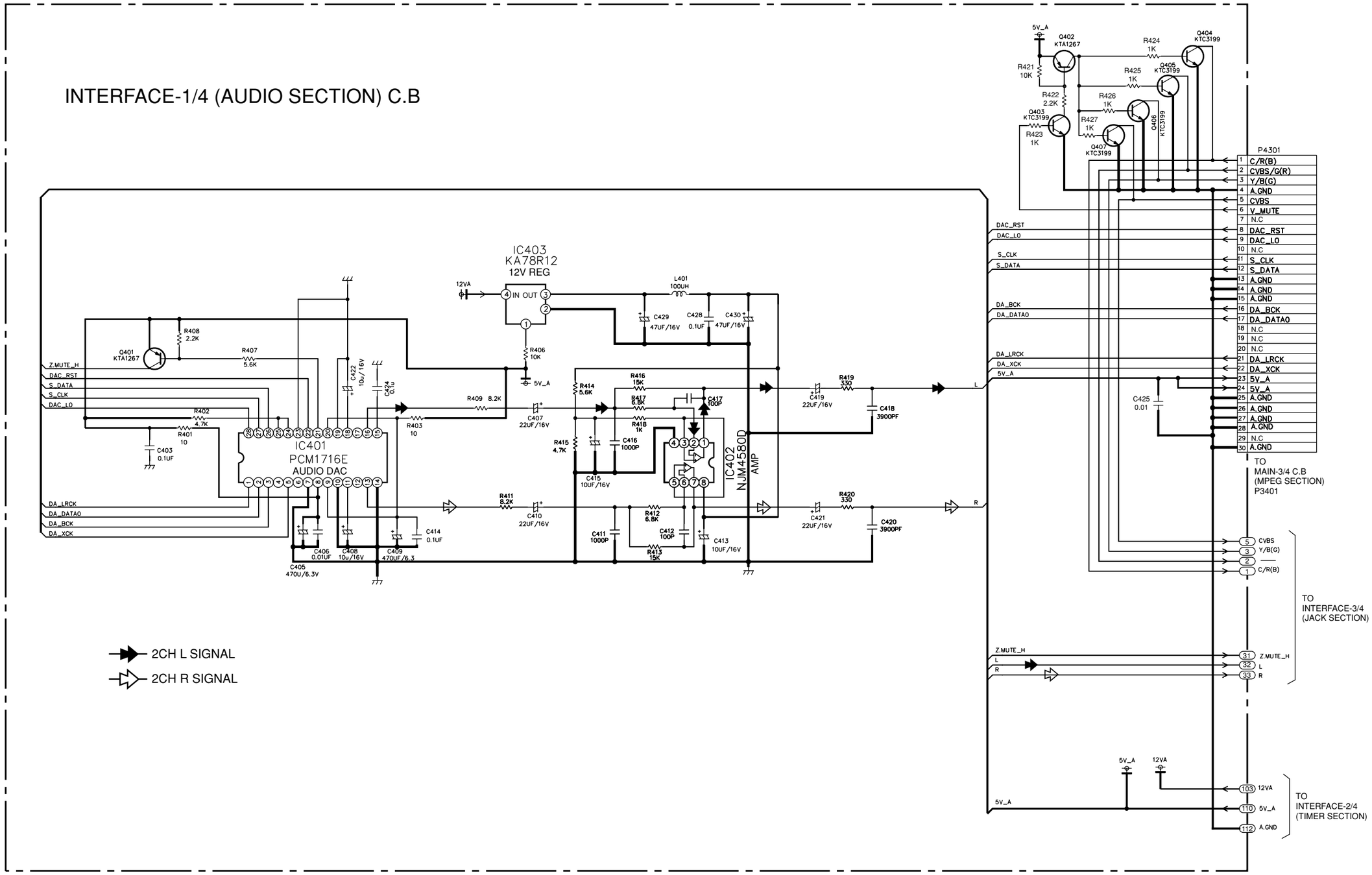
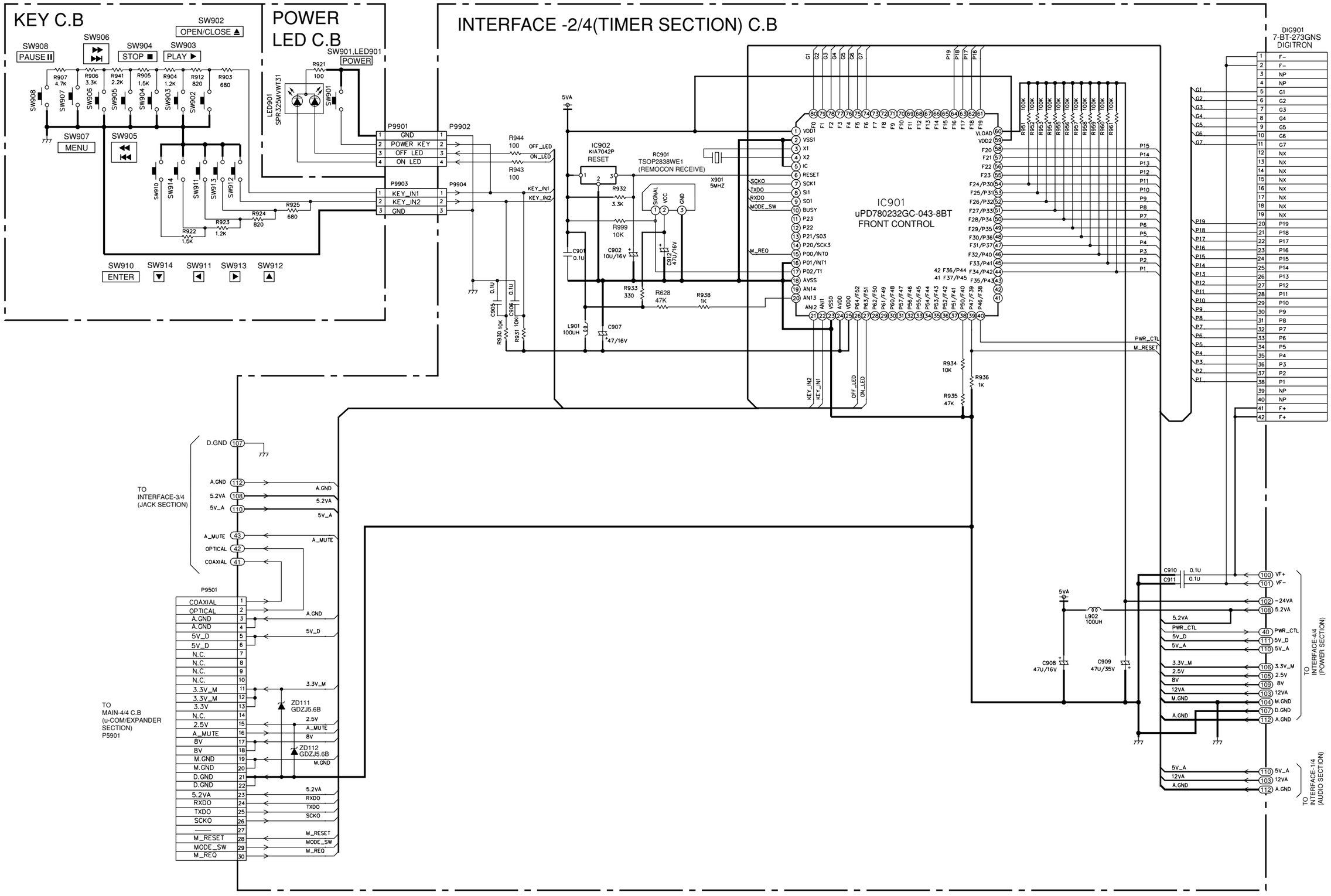
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
MAIN		X	R 524	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 525	SR-H00-00C-622	RES,0-1/16W	a
MAIN		X	R 535	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 536	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 537	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 546	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 547	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 548	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 549	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 550	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 551	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 552	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 553	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 554	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 555	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 557	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 558	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 559	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 560	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 562	SR-H47-01C-622	RES,4.7K-1/16W	a
						XD-DV481 HRJSC
MAIN		X	R 564	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 565	SR-H47-02C-622	RES,47K-1/16W	a
MAIN		X	R 569	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 570	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		X	R 574	SR-H47-01C-622	RES,4.7K-1/16W	a
MAIN		X	R 576	SR-H47-02C-622	RES,47K-1/16W	a
MAIN		X	R 577	SR-H47-02C-622	RES,47K-1/16W	a
MAIN		X	R 581	SR-H10-01C-622	RES,1K-1/16W	a
MAIN		X	R 582	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 583	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 584	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 588	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 589	SR-H12-01C-622	RES,1.2K-1/16W	a
MAIN		X	R 593	SR-H10-00C-622	RES,100-1/16W	a
MAIN		X	R 598	SR-H10-02C-622	RES,10K 1/16W	a
MAIN		O	X 201	S2-02R-BM0-4C0	VIB,XTAL 33.8688MH	a
MAIN		O	X 3K1	S2-02R-BL0-6D0	CRYSTAL,STANDARD 27MHZ	a
MAIN		O	X 501	S2-12R-L00-2A0	RESONATOR CSTCW20M0X53-R0 20M	a
POWER LED		O	LED901	SD-L32-531-9AA	LED SPR325MVWT31(GRN)	a
POWER LED		O	P 9901	S5-636-02R-000	CONN,4P	a
						XD-DV481 HRJSC
POWER LED		X	R 921	SR-D10-00F-608	RES,100-1/6W	a
POWER LED		O	SW 901	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a

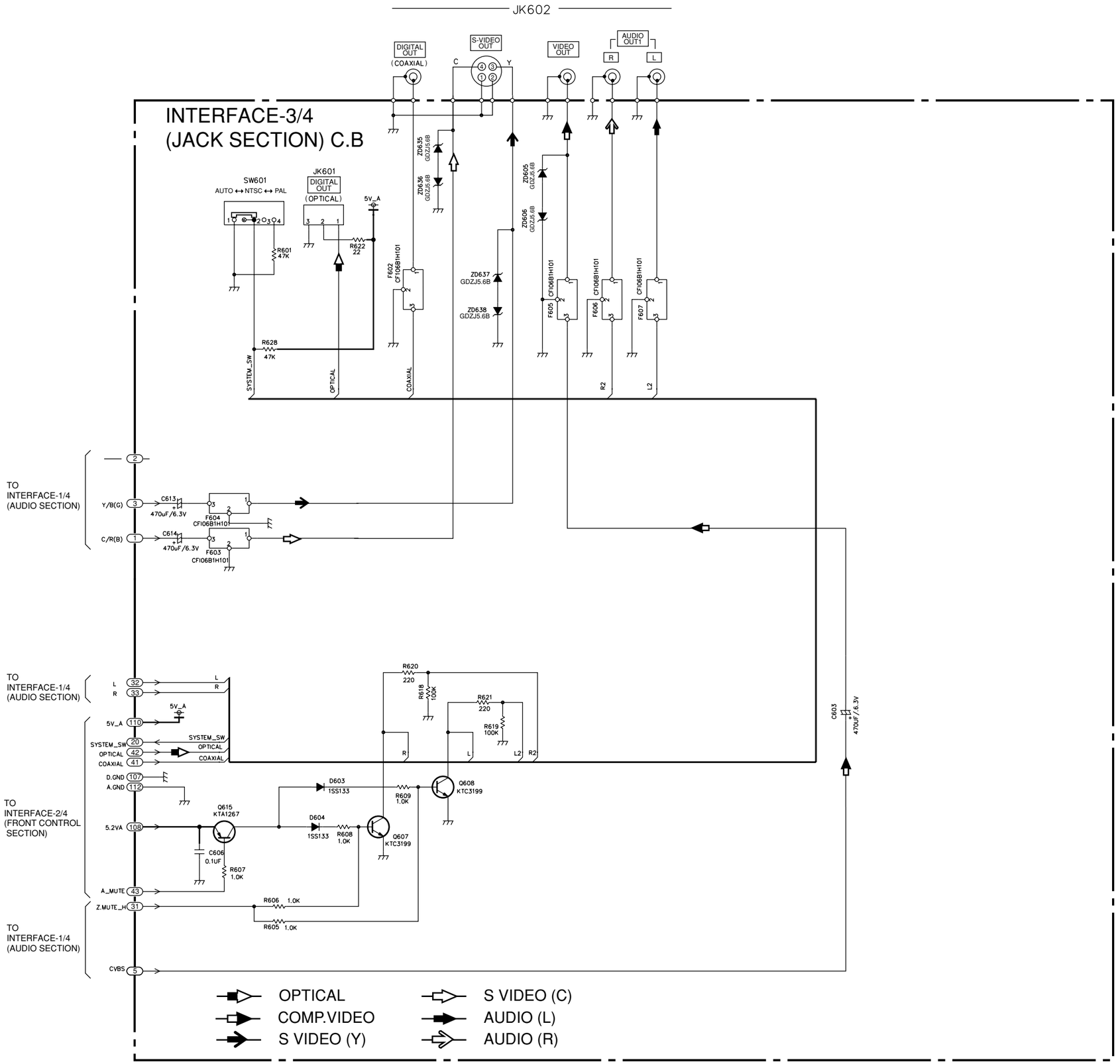
INTERFACE-1/4 (AUDIO SECTION) C.B



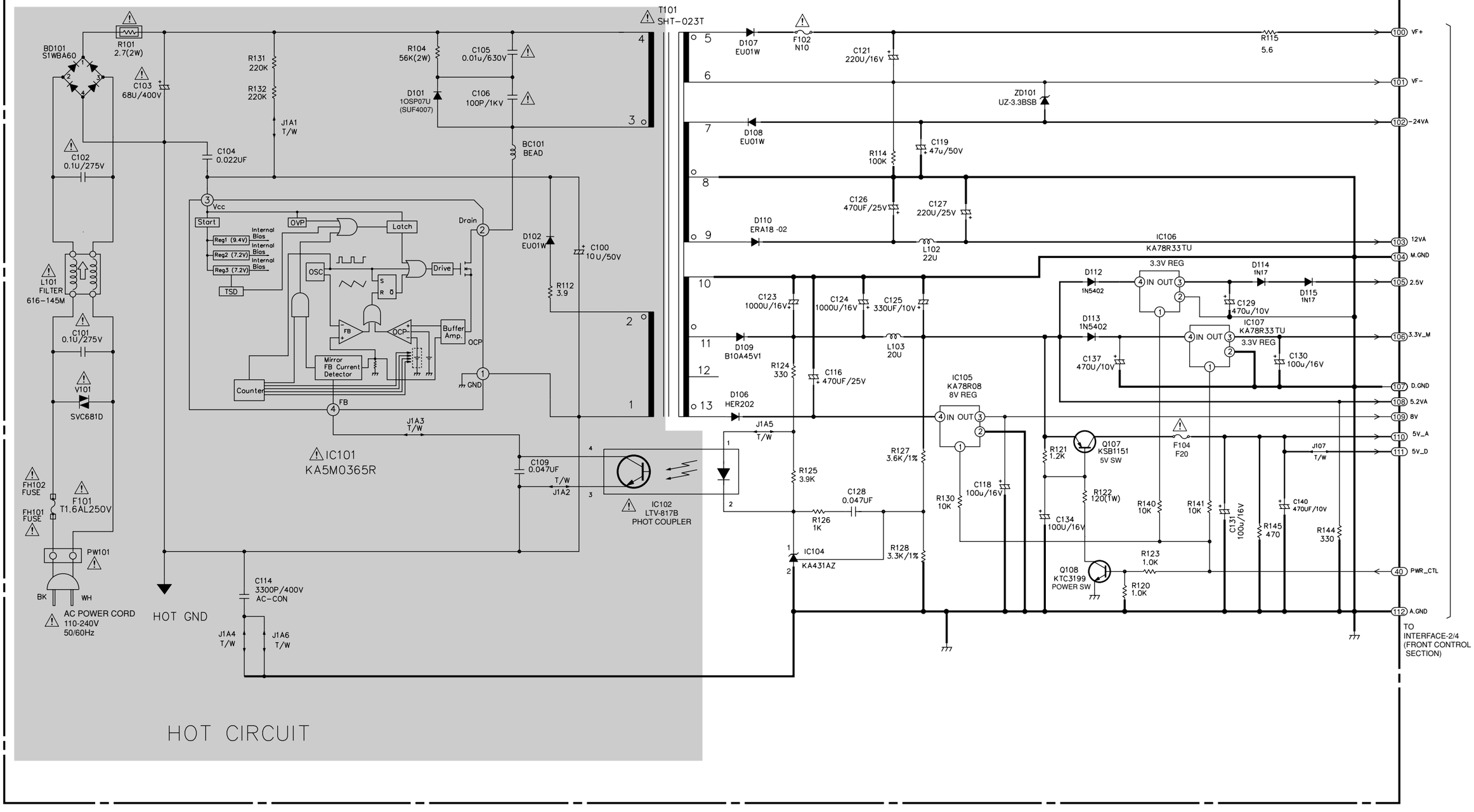
SCHEMATIC DIAGRAM - 2/4 (INTERFACE -2/4, TIMER, KEY, POWER LED SECTION)



SCHEMATIC DIAGRAM - 3/4 (INTERFACE -3/4, JACK SECTION)

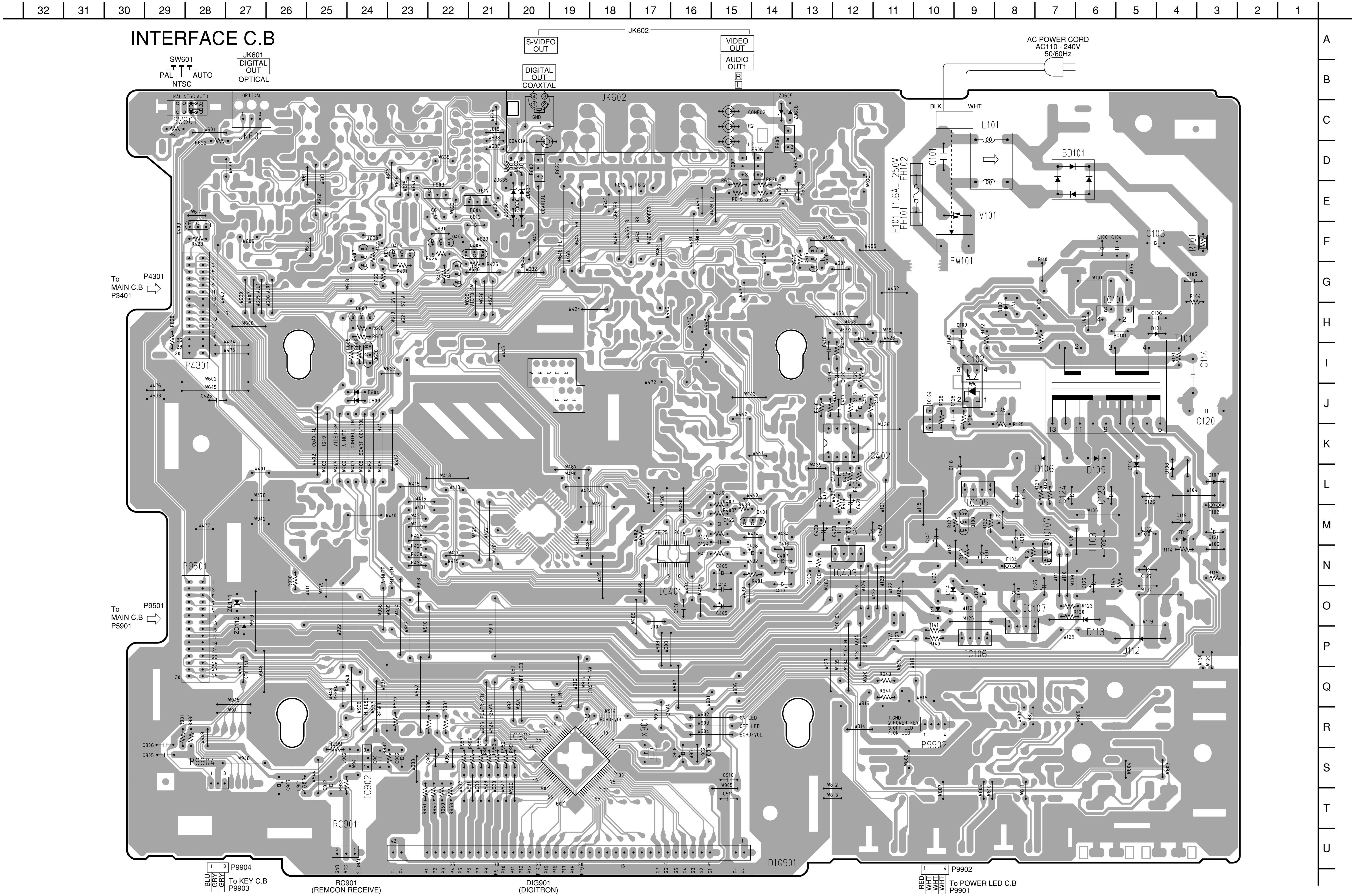


INTERFACE-4/4 (POWER SECTION)C.B

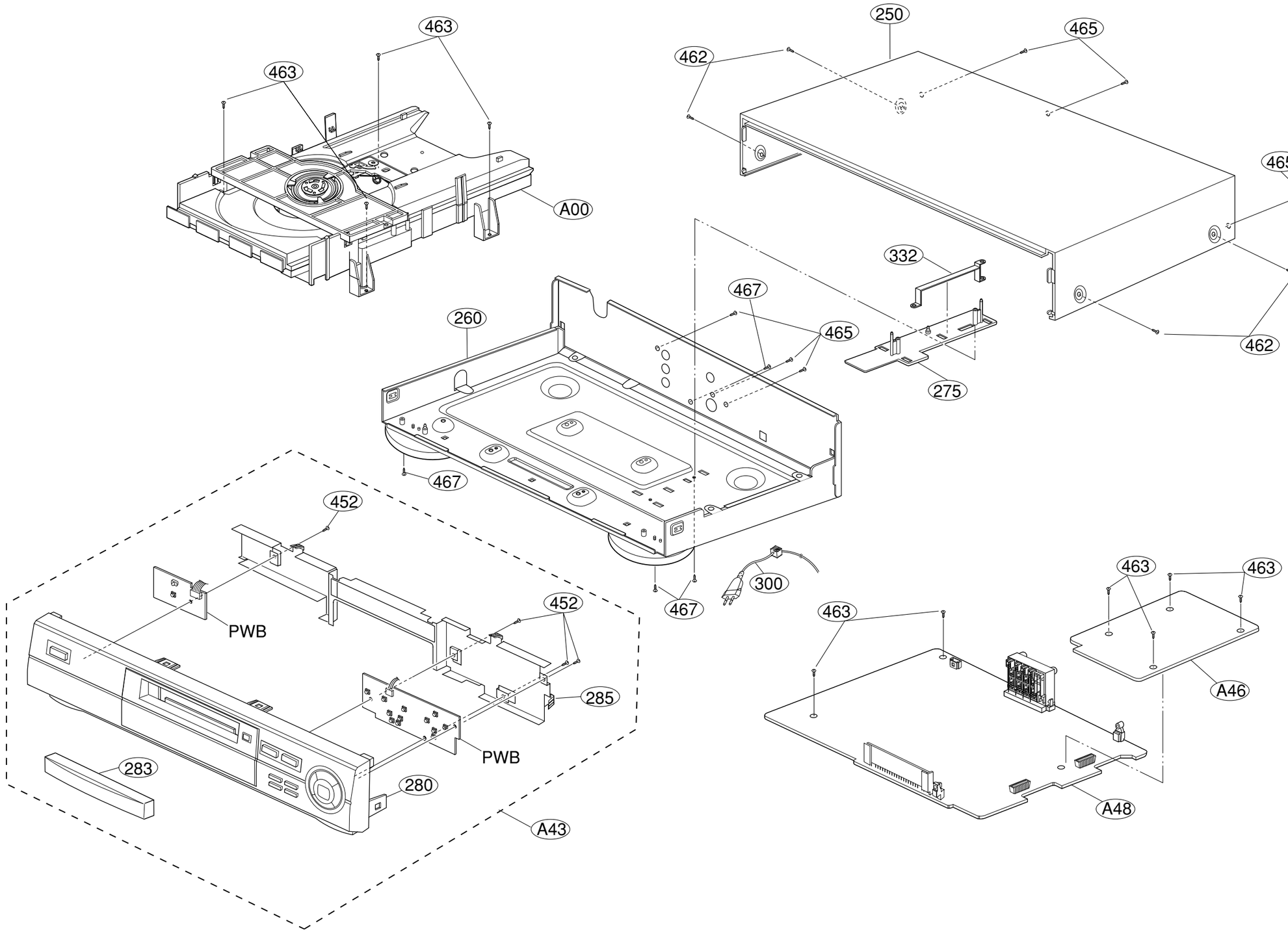


NOTES) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electricial shock.

NOTES : ⏚ Symbol denotes AC ground.
⏚ Symbol denotes DC chassis ground.


INTERFACE C.B
SW601
PAL
NTSC
AUTO
JK601
DIGITAL OUT
OPTICAL
JK602
S-VIDEO OUT
DIGITAL OUT
COAXTAL
VIDEO OUT
AUDIO OUT1
R
L
AC POWER CORD
AC110 - 240V
50/60Hz
BLK
WHT
To MAIN C.B P3401
P4301
To MAIN C.B P5901
P9501
P9904
BLU
GRY
GRY
To KEY C.B P9903
RC901 (REMCON RECEIVE)
GND
VCC
SIGNAL
DIG901 (DIGITRON)
P9902
RED
WHT
WHT
WHT
To POWER LED C.B P9901
1.GND
2.POWER KEY
3.OFF LED
4.ON LED
IC901
IC902
IC401
IC402
IC403
IC101
IC102
IC105
IC106
IC107
T101
BD101
L101
PW101
F101 T1.6AL 250V FH101 FH102
V101
X901
COAXIAL
16:9
VIDEO-SW
A-MUTE
CONTROL IN
SCART CONTROL
9VA
12V-A
5V-A
CENTER
RL
RR
WOOFER
FL
FR
Z-MUTE
ON LED
OFF LED
ECHO-VOL
POWER-CTL
-24VA
KEY IN1
SYSTEM-SW
M-REQ
M-RESET
RESET
MIC-IN
MIC-ON
12VA
5VA
COMPO2
R2
L2

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
		O	MC1250	S1-10R-018-4R0	CASE,TOP S	a
		X	MC1260	S1-41R-003-9L0	CHASSIS ASSY,MAIN	a
		O	MC1275	S9-30R-018-3A0	HOLDER MAIN PCB	a
		O	MC1280	S7-21R-F23-2M0	PANEL ASSY,FRONT	a
		O	MC1283	S5-81R-T00-6F0	DOOR ASSY,TRAY	a
		X	MC1285	S3-01R-M00-4B0	PLATE ASSY	a
	!	O	MC1300	S4-10R-CHR-02C	POWER CORD	a
		X	MC1332	S3-00R-M01-8A0	PLATE MAIN	a
		O	MC1452	S3-530-51A-000	SCREW,SPECIAL	a
		O	MC1462	S5-308-5E0-000	SCREW,+4-10	a
		O	MC1463	S3-530-51G-000	SCREW,DRAWING + 2 3-8	a
		O	MC1465	S3-530-46K-000	SPECIAL SCREW 3-10 B.K	a
		O	MC1467	S3-530-46N-000	SPECIAL SCREW 3-8 BK	a
		X	MC1A00	S7-21R-H03-22A	DECK ASSY,VIDEO DP-4RM	a
		X	MC1A43	S5-01R-F40-16M	BOARD ASSY,FRONT	a
		X	MC1A46	S8-71R-343-5C0	PWB(PCB) ASSY,TOTAL DV4951E S	a
		X	MC1A48	S8-71R-349-7G0	PWB ASSY	a

OTHER PARTS LIST -1/1

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
						XD-DV481 HRJSC
		X		S9-205-3B0-000	BAG,SOFT(MIDI)	a
		X		S8-90R-H76-6V0	BOX	a
		X		S9-20R-E03-4A0	PACKING,CASING BAV-13	a

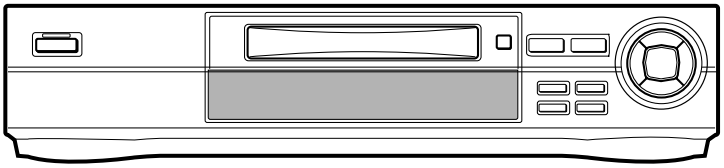
アイワ株式会社〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD.2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

0251431

aiwa
SERVICE

XD-DV487 EZ (B)
XD-DV480 EZ (B)
XD-DV480 EZ (NH)
XD-DV480 K (NH)

SIMPLE-2



SERVICE MANUAL

DVD PLAYER

BASIC DVD/CD MECHANISM: DP-4RM

A part of contents is adequate.
Re-issuing is under request.

aiwa

S/M Code No. 09-01A-358-1N3

DATA

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SPECIFICATIONS

Power supply	230 V AC, 50 Hz
Power consumption	16 W
Power consumption in standby mode	2.9 W
Weight	2.9 kg (7.1 lbs)
External dimensions	430 × 88 × 244 mm (w × h × d)
Laser	Semiconductor Laser, wavelength 650/780 nm
Signal format	PAL/NTSC
Supported discs	DVD video discs 12 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) Compact discs (CD-DA, video CD) 12 cm and 8 cm discs
S video output	Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p 1 Mini Din 4 pin
Video output	Video composite output 1 Vp-p (75 ohms, sync negative) 1 RCA jack Video component output Y output: 1 Vp-p (75 ohms, sync negative) 1 RCA jack P_B,P_R output: 0.7 Vp-p (75 ohms) 1 RCA jacks (P_B,P_R, Y)
Audio output	Digital output 0.5 Vp-p (75 ohms) 1 Fiber optical connector 1 RCA jack Analog output 2.0 Vrms (1kHz, 0dB, 330 ohms) 2 RCA jacks (L/R)
Audio output characteristics	Signal to noise ratio More than 105 dB (EIAJ) Dynamic range More than 95 dB (EIAJ) Harmonic distortion 0.003% Frequency range: CD / VCD: 2 Hz to 20 kHz DVD: 2Hz to 22kHz (48kHz sampling) 2Hz to 44kHz (96kHz sampling) Wow and flutter: unmeasurable
Operating conditions	5 ˚C to 35 ˚C (41 ˚F to 95 ˚F)

• Design and specifications are subject to change without notice.

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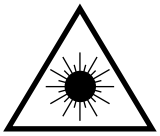
• Manufactured under license from Digital Theater Systems, Ino. US Pat. No. 5,451,942 and other worldwide patents issued and pending. DTS and DTS Digital Surround are trademarks of Digital Theater Systems, Inc.' 1996 Digital Theater systems, Ino. All rights reserved.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

Precaution to replace Optical block

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

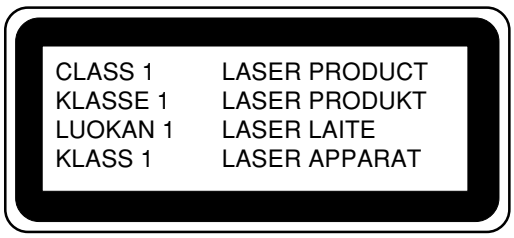
1) After the connection, remove solder shown in the figures below.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

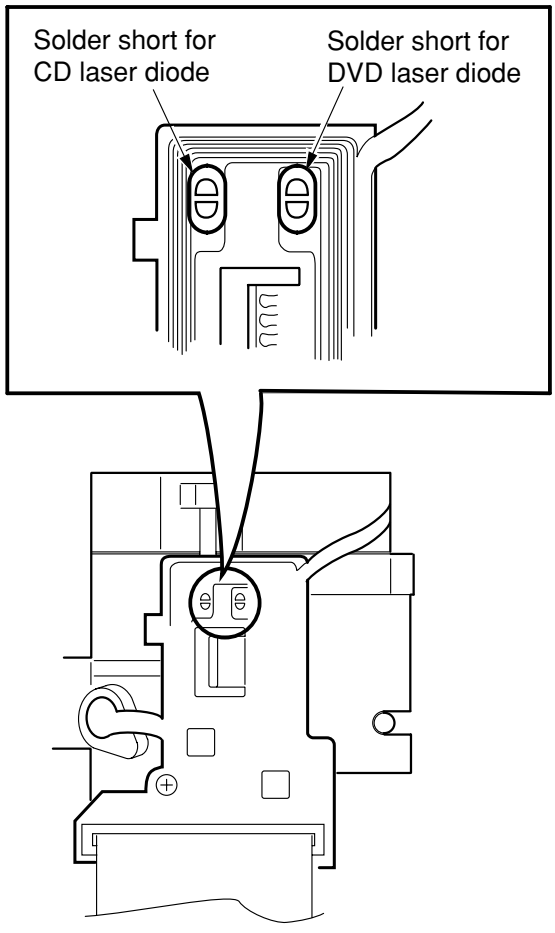
ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



(PVR-202T)



ACCESSORIES PARTS LIST -1/1

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		O	1	S8-35R-S00-21X	IB,DVA4121E	a	b	.
		O	1	S8-35R-S00-23N	IB,XD-DV480 KNHC	.	.	c
		O	1	S8-35R-S00-23B	IB,DVA4141E	.	.	.
		O	2	S7-11R-2N0-56A	REMOTE CONTROLLER ASSEMBL D1(	a	b	c
		O	3	S6-11R-1G0-01A	PLUG ASSY 1WAY YELLOW GLOBAL	a	b	c
		O	4	S6-11R-2G0-01A	PLUG ASSY 2WAY RED/WHITE	a	b	c

CABINET DISASSEMBLY

1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow

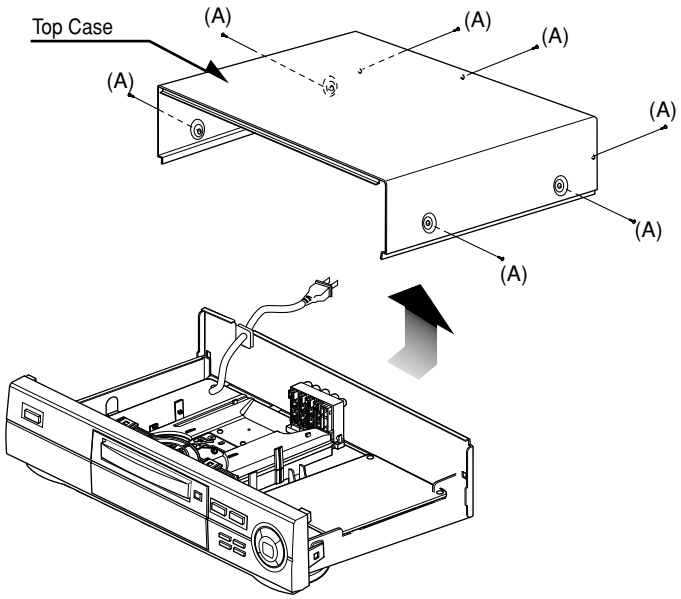

Fig. 2-1

2. Tray Door

1. The AC cord is connected and a power switch is turned on.
2. Eject the disc tray.
3. Lift up the tray door in the direction of the arrow.

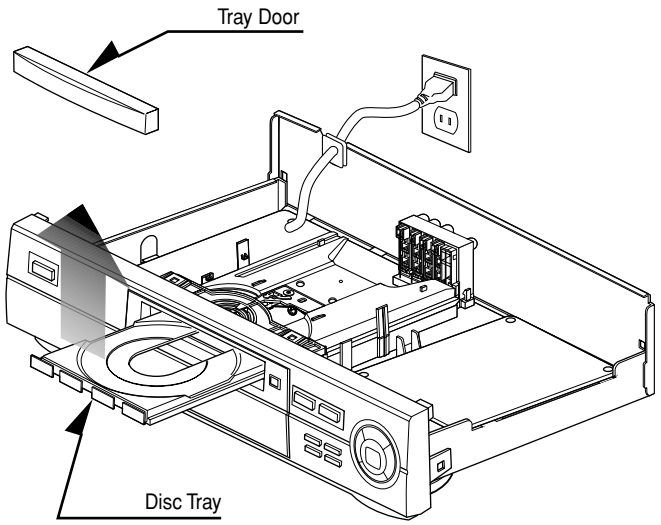

Fig. 2-2

3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Pull the front panel toward you while pressing 7 stoppers to disengage, and remove the front panel. (See Fig. 2-3)

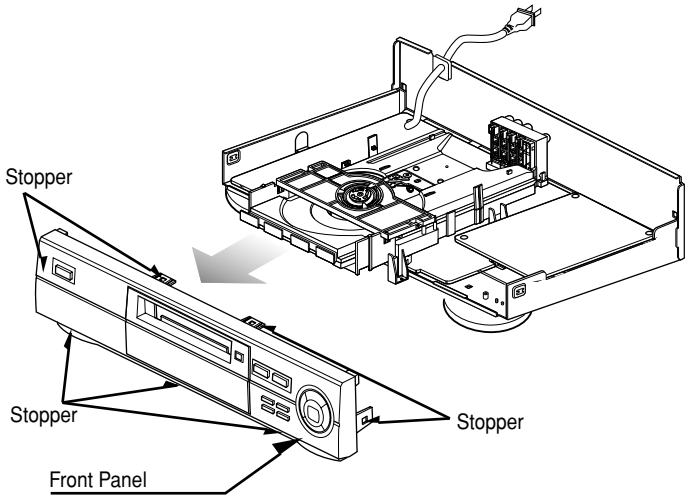

Fig. 2-3

CIRCUIT BOARD DISASSEMBLY

1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 13 screw (C).
3. Remove FF-cable (PMD02, PMD03), and remove the DVD MECHANISM.
4. Remove 2 connector (P3401, P5901) and remove Main Circuit Board from Interface Board.
5. Remove 2 screw (D).
6. Remove Interface Board from the chassis.

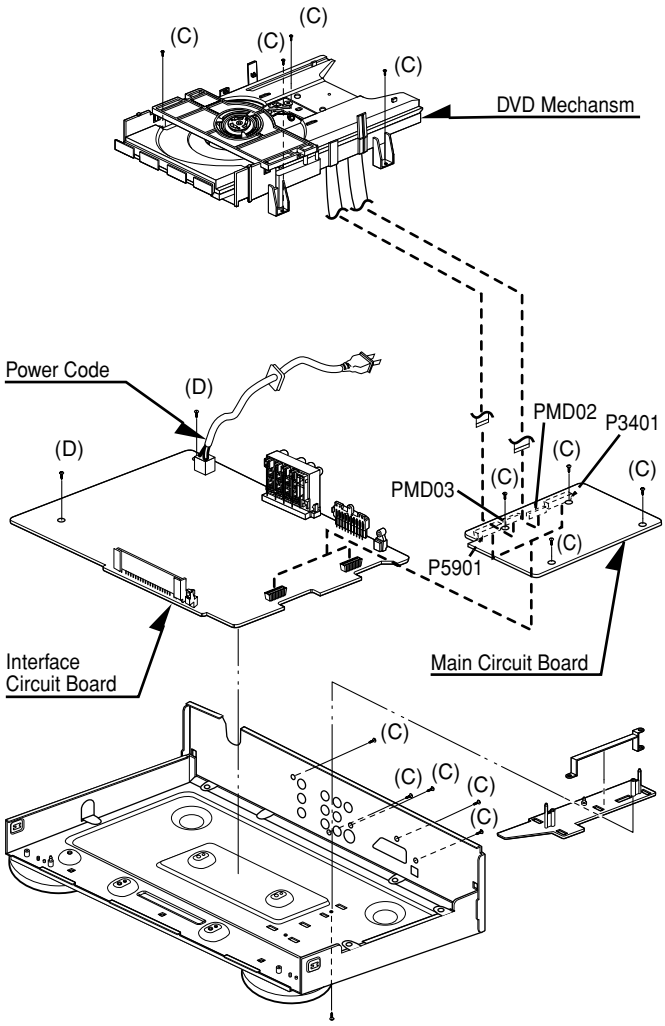

Fig. 2-4

2. Key and Power Led Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 5 screws (E), remove the Key and Power Led circuit board.

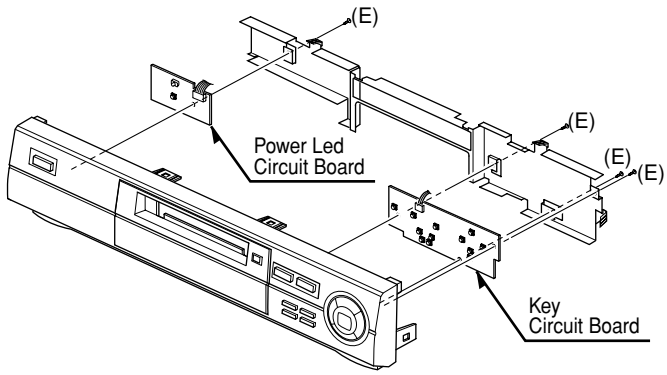

Fig. 2-5

ELECTRICAL PARTS LIST - 1/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		O	BC 101	S6-360-04C-000	COIL,BFS3550R2FD8	a	b	c
INTERFACE		S	BD 101	87-070-173-010	DIODE,S1WBA60	a	b	c
INTERFACE		O	C 100	87-010-415-010	CAP,10M-50V	a	b	c
INTERFACE	!	O	C 101	S6-240-88N-000	CAP,MPX104K 275VAC	a	b	c
INTERFACE	!	O	C 102	S6-240-88N-000	CAP,MPX104K 275VAC	a	b	c
INTERFACE	!	O	C 103	S0-2TF-H68-0M0	CAP,E 68UF-400V	a	b	c
INTERFACE		X	C 104	SC-N22-3AK-948	CAP,0.022UF 50V	a	b	c
INTERFACE	!	O	C 105	87-016-375-010	CAP,0.01UF-630V	a	b	c
INTERFACE	!	O	C 106	S6-240-87B-000	CAP,100P-1KV	a	b	c
INTERFACE		X	C 109	SC-Q47-32K-409	CAP,0.047UF-50V	a	b	c
INTERFACE	!	O	C 114	87-012-379-010	CAP,3300PF-400V	a	b	c
INTERFACE		O	C 116	87-016-134-080	CAP,E 470UF-25V M FM	a	b	c
INTERFACE		O	C 118	87-010-060-080	CAP,E 100-16V	a	b	c
INTERFACE		O	C 119	87-010-408-040	CAP,E 47UF-50V	a	b	c
INTERFACE		O	C 121	SC-E22-76F-638	CAP,E 220UF-16V	a	b	c
INTERFACE		O	C 123	SC-E10-86F-6CM	CAP,E 1000UF-16V M FM5 BU	a	b	c
INTERFACE		O	C 124	SC-E10-86F-6CM	CAP,E 1000UF-16V M FM5 BU	a	b	c
INTERFACE		O	C 125	87-010-375-080	CAP,E 330-10V	a	b	c
INTERFACE		O	C 126	87-016-134-080	CAP,E 470UF-25V M FM	a	b	c
INTERFACE		O	C 127	87-010-385-010	CAP,E 220UF-25V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	C 128	SC-Q47-32K-409	CAP,0.047UF-50V	a	b	c
INTERFACE		O	C 129	SC-E47-7CD-638	CAP,E 470UF-10V	a	b	c
INTERFACE		O	C 130	87-010-060-080	CAP,E 100-16V	a	b	c
INTERFACE		O	C 131	87-010-060-080	CAP,E 100-16V	a	b	c
INTERFACE		O	C 134	87-010-060-080	CAP,E 100-16V	a	b	c
INTERFACE		O	C 137	SC-E47-7CD-638	CAP,E 470UF-10V	a	b	c
INTERFACE		O	C 140	SC-E47-7CD-638	CAP,E 470UF-10V	a	b	c
INTERFACE		X	C 403	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		X	C 404	SC-N10-40K-948	CAP,0.1UF-50V	.	.	.
INTERFACE		O	C 405	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		X	C 406	SC-N10-30F-678	CAP,0.01-16V	a	b	c
INTERFACE		O	C 407	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		O	C 408	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		O	C 409	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		O	C 410	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		X	C 411	SC-N10-20K-518	CAP,1000P-50V	a	b	c
INTERFACE		X	C 412	SC-N10-10K-418	CAP,100P-50V	a	b	c
INTERFACE		O	C 413	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		X	C 414	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 415	87-015-681-080	CAP,E 10-16V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	C 416	SC-N10-20K-518	CAP,1000P-50V	a	b	c
INTERFACE		X	C 417	SC-N10-10K-418	CAP,100P-50V	a	b	c
INTERFACE		X	C 418	SC-N39-20F-668	CAP,3900P-16V	a	b	c
INTERFACE		O	C 419	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		X	C 420	SC-N39-20F-668	CAP,3900P-16V	a	b	c
INTERFACE		O	C 421	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		O	C 422	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		X	C 424	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		X	C 425	SC-N10-30F-678	CAP,0.01-16V	a	b	c
INTERFACE		X	C 428	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 429	87-015-684-080	CAP,E 47-16V	a	b	c
INTERFACE		O	C 430	87-015-684-080	CAP,E 47-16V	a	b	c
INTERFACE		X	C 450	SC-N10-40K-948	CAP,0.1UF-50V	.	.	.
INTERFACE		O	C 452	87-015-684-080	CAP,E 47-16V	.	.	.
INTERFACE		O	C 453	87-A10-205-080	CAP,E 470-6.3V	.	.	.
INTERFACE		O	C 454	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 455	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 456	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 457	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 458	SC-N10-10K-418	CAP,100P-50V	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	C 459	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 460	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 461	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 462	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 463	SC-N10-10K-418	CAP,100P-50V	.	.	.
INTERFACE		O	C 464	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 465	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 466	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 467	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 468	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 469	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 470	SC-N10-10K-418	CAP,100P-50V	.	.	.
INTERFACE		X	C 471	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 472	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 473	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 474	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 475	SC-N10-10K-418	CAP,100P-50V	.	.	.
INTERFACE		O	C 476	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 478	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 479	87-010-075-040	CAP,E 10UF-16V	.	.	.

ELECTRICAL PARTS LIST - 2/14

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		O	C 480	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 481	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		X	C 482	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 483	SC-N10-10K-418	CAP,100P-50V	.	.	.
INTERFACE		X	C 484	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 485	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 486	87-010-552-040	CAP,E 22-16V	.	.	.
INTERFACE		X	C 487	SC-N10-20K-518	CAP,1000P-50V	.	.	.
INTERFACE		X	C 488	SC-N10-10K-418	CAP,100P-50V	.	.	.
INTERFACE		X	C 490	SC-N39-20F-668	CAP,3900P-16V	.	.	.
INTERFACE		O	C 491	87-010-552-040	CAP,E 22-16V	.	.	.
INTERFACE		O	C 492	87-010-075-040	CAP,E 10UF-16V	.	.	.
INTERFACE		O	C 601	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		O	C 603	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		O	C 604	87-010-552-040	CAP,E 22-16V	a	b	c
INTERFACE		X	C 605	SC-N10-30F-678	CAP,0.01-16V	a	b	c
INTERFACE		X	C 606	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 613	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		O	C 614	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		O	C 615	87-A10-205-080	CAP,E 470-6.3V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	C 616	SC-N39-20F-668	CAP,3900P-16V	a	b	c
INTERFACE		X	C 617	SC-N39-20F-668	CAP,3900P-16V	a	b	c
INTERFACE		O	C 656	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		O	C 657	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		O	C 663	87-A10-205-080	CAP,E 470-6.3V	a	b	c
INTERFACE		O	C 801	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		O	C 802	87-010-060-080	CAP,E 100-16V	.	b	c
INTERFACE		O	C 803	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		O	C 804	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		X	C 805	SC-N10-30F-678	CAP,0.01-16V	.	b	c
INTERFACE		O	C 806	87-010-060-080	CAP,E 100-16V	.	b	c
INTERFACE		O	C 807	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		O	C 810	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		O	C 813	87-010-553-080	CAP,E 47UF-16V	.	b	c
INTERFACE		X	C 817	SC-N10-30F-678	CAP,0.01-16V	.	b	c
INTERFACE		X	C 821	SC-N10-30F-678	CAP,0.01-16V	.	b	c
INTERFACE		O	C 824	87-015-681-080	CAP,E 10-16V	.	b	c
INTERFACE		X	C 901	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 902	87-015-681-080	CAP,E 10-16V	a	b	c
INTERFACE		X	C 905	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	C 906	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 907	87-015-684-080	CAP,E 47-16V	a	b	c
INTERFACE		O	C 908	87-015-684-080	CAP,E 47-16V	a	b	c
INTERFACE		O	C 909	SC-E47-64J-638	CAP,E 47UF-35V	a	b	c
INTERFACE		X	C 910	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		X	C 911	SC-N10-40K-948	CAP,0.1UF-50V	a	b	c
INTERFACE		O	C 912	87-015-684-080	CAP,E 47-16V	a	b	c
INTERFACE		S	D 101	SD-R40-070-9AA	DIODE,10SP07U(SUF4007SP)	a	b	c
INTERFACE		S	D 102	SD-D01-000-9AC	DIODE,EU01W	a	b	c
INTERFACE		O	D 106	SD-R20-200-0AB	DIODE,HER202 BK	a	b	c
INTERFACE		S	D 107	SD-D01-000-9AC	DIODE,EU01W	a	b	c
INTERFACE		S	D 108	SD-D01-000-9AC	DIODE,EU01W	a	b	c
INTERFACE		O	D 109	SD-R10-451-0AA	DIODE,B10A45V1	a	b	.
INTERFACE		O	D 109	SD-RSA-000-20A	DIODE,FMB-G24H LF651	.	.	c
INTERFACE		O	D 110	SD-R18-020-9AA	DIODE,ERA18-02KFRB	a	b	c
INTERFACE		O	D 112	SD-R15-402-0BA	DIODE,1N5402	a	b	c
INTERFACE		O	D 113	SD-R15-402-0BA	DIODE,1N5402	a	b	c
INTERFACE		O	D 114	SD-RRE-000-29A	DIODE,1N17	a	b	c
INTERFACE		O	D 115	SD-RRE-000-29A	DIODE,1N17	a	b	c
INTERFACE		O	D 601	87-020-465-080	DIODE,1SS133	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		O	D 602	87-020-465-080	DIODE,1SS133	a	b	c
INTERFACE		O	D 603	87-020-465-080	DIODE,1SS133	a	b	c
INTERFACE		O	D 604	87-020-465-080	DIODE,1SS133	a	b	c
INTERFACE		O	D 605	87-020-465-080	DIODE,1SS133	a	b	c
INTERFACE		O	DIG901	S3-02R-V10-3D0	DIGITRON 7-BT-273GNS FUTABA S	a	b	c
INTERFACE	!	O	F 101	S5-850-11T-000	FUSE,1600MA 250V	a	b	c
INTERFACE	!	O	F 102	87-001-196-010	ICP-N10 T104	a	b	.
INTERFACE	!		F 102		IC,ROHM ICP-N10 T104 TP IC DE	.	.	c
INTERFACE		X	F 103	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	.	.	c
INTERFACE	!	O	F 104	87-020-840-080	ICP-N20	a	b	.
INTERFACE	!		F 104		IC,ROHM ICP-N20 T104 TP IC DE	.	.	c
INTERFACE		O	F 602	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 603	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 604	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 605	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 606	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 607	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 608	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 611	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.
INTERFACE		O	F 612	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.

ELECTRICAL PARTS LIST - 3/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		O	F 613	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.
INTERFACE		O	F 614	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.
INTERFACE		O	F 615	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.
INTERFACE		O	F 616	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	.	.	.
INTERFACE		O	F 617	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 618	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE		O	F 622	S2-00H-JC9-01A	SAM,FILTER CFI06B1H101MF	a	b	c
INTERFACE	!	O	FH 101	S5-860-08B-000	HOLDER,FUSE CLIP	a	b	c
INTERFACE	!	O	FH 102	S5-860-08B-000	HOLDER,FUSE CLIP	a	b	c
INTERFACE	!	S	IC 101	SI-PMG-FA0-05A	IC,KA5M0365R-YDTU	a	b	c
INTERFACE	!	O	IC 102	S2-309-024-040	SENSORLTV-817B PHOTO COU	a	b	c
INTERFACE		O	IC 104	SI-SS4-310-00A	IC,KA431AZ	a	b	c
INTERFACE		O	IC 105	SI-SS7-808-00H	IC,KA78R08 4P	a	b	c
INTERFACE		O	IC 106	SI-SS7-833-00A	IC,CKA78R33TU	a	b	c
INTERFACE		O	IC 107	SI-SS7-833-00A	IC,CKA78R33TU	a	b	c
INTERFACE		O	IC 401	SI-BB1-716-00A	IC,PCM1716E 28P	a	b	c
INTERFACE		S	IC 402	87-002-348-010	IC,NJM4580D	a	b	c
INTERFACE		S	IC 403	SI-SS7-812-00E	IC,KA78R12	a	b	c
INTERFACE			IC 451	SI-PRP-BB0-01A	IC,PCM1601Y	.	.	.
INTERFACE		S	IC 452	87-002-348-010	IC,NJM4580D	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		S	IC 453	87-002-348-010	IC,NJM4580D	.	.	.
INTERFACE		S	IC 454	87-002-348-010	IC,NJM4580D	.	.	.
INTERFACE		S	IC 901	SI-MCR-NE0-02B	IC,MICRO CONTROLLER UPD780	a	b	.
INTERFACE		S	IC 901	SI-MCR-NE0-02B	IC,UPD780232GC-035-8BT	.	.	c
INTERFACE		O	IC 902	87-001-196-010	IC,KIA7042P	a	b	c
INTERFACE		O	JK 601	S6-12R-L00-7A0	JACK,FIBER OPTIC GP1FA550TZ	a	b	c
INTERFACE		O	JK 602	S6-12R-C00-6H0	JACK,RCA	a	b	c
INTERFACE		O	JK 602	S6-12R-C00-6F0	JACK,RCA DIN-10G	.	.	.
INTERFACE		O	JK 603	S6-12R-K00-1E0	JACK,RCA RGB-08	a	b	c
INTERFACE	!	O	L 101	S6-161-45M-000	FILTER(CIRC) V-04350 LS	a	b	c
INTERFACE		O	L 102	S6-330-88G-000	COIL,CHOCK TP 5MM	a	b	c
INTERFACE		O	L 103	S6-330-88D-000	COIL,20UH	a	b	c
INTERFACE		O	L 401	87-005-208-080	COIL,100	a	b	c
INTERFACE		O	L 602	87-005-208-080	COIL,100	a	b	c
INTERFACE		O	L 603	87-003-097-080	COIL,1.0M 2.3-3.4-5	a	b	c
INTERFACE		O	L 604	87-003-097-080	COIL,1.0M 2.3-3.4-5	a	b	c
INTERFACE		O	L 901	87-005-208-080	COIL,100	a	b	c
INTERFACE		O	L 902	87-005-208-080	COIL,100	a	b	c
INTERFACE		O	P 4301	S6-30R-BE0-240	CONN,BOAR2254-30P-T	a	b	c
INTERFACE		O	P 9501	S6-30R-BE0-240	CONN,BOAR2254-30P-T	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		O	P 9902	S5-617-11D-000	CONN,GIL-S-04P-S2T2-EF	a	b	c
INTERFACE		O	P 9904	S5-617-11C-000	CONNECTOR WAFER,G/S GIL-S-03P	a	b	c
INTERFACE	!	O	PW 101	S5-612-92B-000	GP390 LGC 3P STRAIG P	a	b	c
INTERFACE		O	Q 107	ST-R11-510-0AA	TR,KSB1151-Y	a	b	c
INTERFACE		S	Q 108	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 401	ST-R12-670-9AC	TR,KTA1267-GR	a	b	c
INTERFACE		S	Q 402	ST-R12-670-9AC	TR,KTA1267-GR	a	b	c
INTERFACE		S	Q 403	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 404	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 405	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 406	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 407	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 607	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 608	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 609	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
INTERFACE		S	Q 610	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
INTERFACE		S	Q 611	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
INTERFACE		S	Q 612	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
INTERFACE		S	Q 613	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
INTERFACE		S	Q 614	ST-R31-990-9AF	TR,KTC3199-BL	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		S	Q 615	ST-R12-670-9AC	TR,KTA1267-GR	a	b	c
INTERFACE		S	Q 618	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE		S	Q 619	ST-R31-990-9AF	TR,KTC3199-BL	a	b	c
INTERFACE	!	O	R 101	S6-140-07A-000	RES,CEM 2.7/2W	a	b	c
INTERFACE		O	R 104	SR-S56-02K-619	RES,56K-2W	a	b	c
INTERFACE		X	R 110	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	R 112	SR-D03-91F-608	RES,3.9-1/6W	a	b	c
INTERFACE		X	R 114	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		O	R 115	SR-D05-61F-608	RESISTOR,CARBON FILM 5.6-1/6W	a	b	c
INTERFACE		X	R 120	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X	R 121	SR-D12-01F-608	RES,1.2K-1/6W	a	b	c
INTERFACE		O	R 122	SR-S12-00J-619	RES,M/F 120-1W	a	b	c
INTERFACE		X	R 123	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X	R 124	SR-D33-00F-608	RES,330-1/6W	a	b	c
INTERFACE		X	R 125	SR-D39-01F-608	RES,3.9K-1/6W	a	b	c
INTERFACE		X	R 126	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X	R 127	SR-N36-01E-408	RES,3.6K-1/8W	a	b	c
INTERFACE		X	R 128	SR-N33-01F-408	RES,3.3K-1/6W	a	b	c
INTERFACE		X	R 130	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X	R 131	SR-D22-03F-608	RES,220K-1/6W	a	b	c

ELECTRICAL PARTS LIST - 4/14

! = ⚠ SAFTY PARTS
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	132	SR-D22-03F-608	RES,220K-1/6W	a	b	c
INTERFACE		X R	140	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	141	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	144	SR-D33-00F-608	RES,330-1/6W	a	b	c
INTERFACE		X R	145	SR-D47-00F-608	RES,470-1/6W	a	b	c
INTERFACE		X R	401	SR-D01-02F-608	RES,10-1/6W	a	b	c
INTERFACE		X R	402	SR-D47-01F-608	RES,4.7K-1/6W	a	b	c
INTERFACE		X R	403	SR-D01-02F-608	RES,10-1/6W	a	b	c
INTERFACE		X R	404	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	406	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	407	SR-D56-01F-608	RES,5.6K-1/6W	a	b	c
INTERFACE		X R	408	SR-D22-01F-608	RES,2.2K-1/6W	a	b	c
INTERFACE		X R	409	SR-D82-01F-608	RES,8.2K-1/6W	a	b	c
INTERFACE		X R	411	SR-D82-01F-608	RES,8.2K-1/6W	a	b	c
INTERFACE		X R	412	SR-D68-01F-608	RES,6.8K-1/6W	a	b	c
INTERFACE		X R	413	SR-D15-02F-608	RES,15K-1/6W	a	b	c
INTERFACE		X R	414	SR-D56-01F-608	RES,5.6K-1/6W	a	b	c
INTERFACE		X R	415	SR-D47-01F-608	RES,4.7K-1/6W	a	b	c
INTERFACE		X R	416	SR-D15-02F-608	RES,15K-1/6W	a	b	c
INTERFACE		X R	417	SR-D68-01F-608	RES,6.8K-1/6W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	418	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	419	SR-D33-00F-608	RES,330-1/6W	a	b	c
INTERFACE		X R	420	SR-D33-00F-608	RES,330-1/6W	a	b	c
INTERFACE		X R	421	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	422	SR-D22-01F-608	RES,2.2K-1/6W	a	b	c
INTERFACE		X R	423	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	424	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	425	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	426	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	427	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	428	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	429	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	430	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	431	SR-D01-02F-608	RES,10-1/6W	.	.	.
INTERFACE		X R	432	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	.	.	c
INTERFACE		X R	452	SR-D47-00F-608	RES,470-1/6W	.	.	.
INTERFACE		X R	453	SR-D47-00F-608	RES,470-1/6W	.	.	.
INTERFACE		X R	454	SR-D47-00F-608	RES,470-1/6W	.	.	.
INTERFACE		X R	455	SR-D47-00F-608	RES,470-1/6W	.	.	.
INTERFACE		X R	456	SR-D47-00F-608	RES,470-1/6W	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	457	SR-D75-01F-608	RES,7.5K-1/6W	.	.	.
INTERFACE		X R	458	SR-D56-01F-608	RES,5.6K-1/6W	.	.	.
INTERFACE		X R	459	SR-D47-01F-608	RES,4.7K-1/6W	.	.	.
INTERFACE		X R	460	SR-D15-02F-608	RES,15K-1/6W	.	.	.
INTERFACE		X R	461	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	462	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	463	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	464	SR-D01-02F-608	RES,10-1/6W	.	.	.
INTERFACE		X R	465	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	466	SR-D10-03F-608	RES,100K-1/6W	.	.	.
INTERFACE		X R	467	SR-D75-01F-608	RES,7.5K-1/6W	.	.	.
INTERFACE		X R	468	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	469	SR-D15-02F-608	RES,15K-1/6W	.	.	.
INTERFACE		X R	470	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	472	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	473	SR-D10-03F-608	RES,100K-1/6W	.	.	.
INTERFACE		X R	474	SR-D75-01F-608	RES,7.5K-1/6W	.	.	.
INTERFACE		X R	475	SR-D56-01F-608	RES,5.6K-1/6W	.	.	.
INTERFACE		X R	476	SR-D47-01F-608	RES,4.7K-1/6W	.	.	.
INTERFACE		X R	477	SR-D15-02F-608	RES,15K-1/6W	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	478	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	479	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	480	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	482	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	483	SR-D10-03F-608	RES,100K-1/6W	.	.	.
INTERFACE		X R	484	SR-D75-01F-608	RES,7.5K-1/6W	.	.	.
INTERFACE		X R	485	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	486	SR-D15-02F-608	RES,15K-1/6W	.	.	.
INTERFACE		X R	487	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	489	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	490	SR-D10-03F-608	RES,100K-1/6W	.	.	.
INTERFACE		X R	491	SR-D75-01F-608	RES,7.5K-1/6W	.	.	.
INTERFACE		X R	492	SR-D56-01F-608	RES,5.6K-1/6W	.	.	.
INTERFACE		X R	493	SR-D47-01F-608	RES,4.7K-1/6W	.	.	.
INTERFACE		X R	494	SR-D15-02F-608	RES,15K-1/6W	.	.	.
INTERFACE		X R	495	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	496	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	497	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	499	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	4A1	SR-D10-03F-608	RES,100K-1/6W	.	.	.

ELECTRICAL PARTS LIST - 5/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	4A2	SR-D47-01F-608	RES,4.7K-1/6W	.	.	.
INTERFACE		X R	4A3	SR-D68-01F-608	RES,6.8K-1/6W	.	.	.
INTERFACE		X R	4A4	SR-D15-02F-608	RES,15K-1/6W	.	.	.
INTERFACE		X R	4A6	SR-D33-00F-608	RES,330-1/6W	.	.	.
INTERFACE		X R	4A8	SR-D22-00F-608	RES,220-1/6W	.	.	.
INTERFACE		X R	4A9	SR-D10-03F-608	RES,100K-1/6W	.	.	.
INTERFACE		X R	601	SR-D47-02F-608	RES,47K-1/6W	a	b	c
INTERFACE		X R	602	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	603	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	604	SR-D06-82F-608	RES,68-1/6W	a	b	c
INTERFACE		X R	605	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	606	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	607	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	608	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	609	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	610	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	611	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	612	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	613	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	614	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	615	SR-D10-01F-608	RES,1.0K-1/6W	.	.	.
INTERFACE		X R	616	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	617	SR-D68-00F-608	RES,680-1/6W	a	b	c
INTERFACE		X R	618	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	619	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	620	SR-D22-00F-608	RES,220-1/6W	a	b	c
INTERFACE		X R	621	SR-D22-00F-608	RES,220-1/6W	a	b	c
INTERFACE		X R	622	SR-D02-22F-608	RES,22-1/6W	a	b	c
INTERFACE		X R	623	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	624	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	628	SR-D47-02F-608	RES,47K-1/6W	a	b	c
INTERFACE		X R	633	SR-D47-01F-608	RES,4.7K-1/6W	a	b	c
INTERFACE		X R	638	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	639	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	652	SR-D06-82F-608	RES,68-1/6W	a	b	c
INTERFACE		X R	653	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	654	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	655	SR-D22-01F-608	RES,2.2K-1/6W	a	b	c
INTERFACE		X R	656	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	657	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	660	SR-D68-00F-608	RES,680-1/6W	a	b	c
INTERFACE		X R	661	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	672	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	673	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	674	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	675	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	676	SR-D07-52F-608	RES,75-1/6W	a	b	c
INTERFACE		X R	6C1	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	6C2	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	6C3	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	6C4	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	6C5	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	6C6	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	930	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	931	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	932	SR-D33-01F-608	RES,3.3K-1/6W	a	b	c
INTERFACE		X R	933	SR-D33-00F-608	RES,330-1/6W	a	b	c
INTERFACE		X R	934	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		X R	935	SR-D47-02F-608	RES,47K-1/6W	a	b	c
INTERFACE		X R	936	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X R	937	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X R	938	SR-D10-01F-608	RES,1.0K-1/6W	a	b	c
INTERFACE		X R	943	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	944	SR-D10-00F-608	RES,100-1/6W	a	b	c
INTERFACE		X R	951	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	952	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	953	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	954	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	955	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	956	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	957	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	958	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	959	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	960	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	961	SR-D10-03F-608	RES,100K-1/6W	a	b	c
INTERFACE		X R	999	SR-D10-02F-608	RES,10K-1/6W	a	b	c
INTERFACE		O RC	901	S7-12R-193-8GA	REMOTE CONTROLLER RECEI	a	b	c
INTERFACE		O SW	601	S6-00R-SH0-2A0	SW,SL SKQ-23D15-G5-NA	a	b	c
INTERFACE		O SW	602	S6-00R-SH1-8A0	SWITCH,TACT CSS-4206	a	b	c
INTERFACE	!	O T	101	S6-420-23T-000	PT,SHT-023T/KSE-023T	a	b	c

ELECTRICAL PARTS LIST - 6/14

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						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE	!	O	V 101	S6-560-04C-000	V SVC681D-10A	a	b	c
INTERFACE		X	W 101	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 102	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 103	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 104	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 105	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 106	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 107	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 108	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 109	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 110	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 111	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 112	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 113	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 114	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 115	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 117	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 119	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 120	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 121	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 122	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 123	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 124	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 125	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 126	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 127	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 128	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 129	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 13	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 130	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 131	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 132	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 133	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 134	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 135	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 136	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 137	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 401	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 402	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 403	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 404	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 405	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 406	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 407	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 408	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 409	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 410	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 411	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 412	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 413	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 414	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 415	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 416	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 417	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 418	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 419	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 420	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 421	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 422	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 423	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 424	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 425	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 426	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 428	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 429	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 430	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 431	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 432	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 433	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 434	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 435	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 437	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 438	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 439	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 440	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 441	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 442	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 443	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 444	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 445	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 446	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 447	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 448	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 449	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 450	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 451	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 452	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 453	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 454	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 455	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 456	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 457	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 458	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 459	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 460	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 461	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 462	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 463	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 464	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 465	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 466	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 468	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 471	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 472	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 473	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 474	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 475	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 476	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 477	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 478	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 479	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 481	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 482	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 483	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 484	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 485	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 486	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 487	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 488	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 489	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 490	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 491	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 492	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 495	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 601	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 602	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 603	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 605	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 606	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 607	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 608	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 609	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 610	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 611	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 612	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 613	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 614	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 615	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 616	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 617	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 618	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 619	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 620	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 621	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 622	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 623	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 624	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 625	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 626	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 627	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 628	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 629	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 630	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 631	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 632	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 633	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 634	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 635	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 636	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 637	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c

ELECTRICAL PARTS LIST - 8/14

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 638	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 639	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 640	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 641	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 642	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 643	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 644	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 645	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 646	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 647	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 801	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 802	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 803	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 804	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 805	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 806	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 807	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 809	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 810	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 811	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 812	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 813	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 814	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 815	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 816	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 818	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 819	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 820	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 901	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 902	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 903	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 904	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 905	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 906	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 907	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 908	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 909	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 910	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 911	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 912	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 913	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 914	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 915	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 916	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 917	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 918	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 919	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 920	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 921	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 922	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 923	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 924	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 925	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 926	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 927	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 928	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 929	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 930	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 931	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 932	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 933	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 934	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 935	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 936	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 937	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 938	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 939	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 940	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 941	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 942	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 943	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 944	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 945	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 946	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 947	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 948	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 949	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 950	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 951	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		X	W 9A1	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c

ELECTRICAL PARTS LIST - 9/14

! = ⚠ SAFTY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
INTERFACE		X	W 9A2	S8-740-00T-000	WIRE,COPPER 0.6 ROLL	a	b	c
INTERFACE		O	X 901	S2-12R-J00-3A0	RESONATOR CSTLS5M00G53-A0 5MH	a	b	c
INTERFACE		O	ZD 101	SD-Z33-000-9BF	ZENER,GDZJ3.3B	.	.	c
INTERFACE		O	ZD 605	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 606	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 611	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 612	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 635	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 636	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 637	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 638	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 639	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 640	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 641	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 642	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 643	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
INTERFACE		O	ZD 644	SD-Z56-260-9AA	ZENER,GDZJ5.6B 26MM TP	a	b	c
KEY		O	P 9903	S6-31R-E00-9L0	CONNECTOR ASSY GIL-S/9073AN 3	a	b	c
KEY		X	R 903	SR-D68-00F-608	RES,680-1/6W	a	b	c
KEY		X	R 904	SR-D12-01F-608	RES,1.2K-1/6W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
KEY		X	R 905	SR-D15-01F-608	RES,1.5K-1/6W	a	b	c
KEY		X	R 906	SR-D33-01F-608	RES,3.3K-1/6W	a	b	c
KEY		X	R 907	SR-D47-01F-608	RES,4.7K-1/6W	a	b	c
KEY		X	R 912	SR-D82-00F-608	RES,820-1/6W	a	b	c
KEY		X	R 922	SR-D15-01F-608	RES,1.5K-1/6W	a	b	c
KEY		X	R 923	SR-D12-01F-608	RES,1.2K-1/6W	a	b	c
KEY		X	R 924	SR-D82-00F-608	RES,820-1/6W	a	b	c
KEY		X	R 925	SR-D68-00F-608	RES,680-1/6W	a	b	c
KEY		X	R 941	SR-D22-01F-608	RES,2.2K-1/6W	a	b	c
KEY		O	SW 902	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 903	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 904	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 905	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 906	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 907	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 908	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 910	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 911	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 912	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
KEY		O	SW 913	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
KEY		O	SW 914	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c
MAIN		X	C 201	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 203	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 205	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 206	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 207	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 210	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 221	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 223	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 224	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 226	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 227	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 228	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 229	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		O	C 232	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		X	C 237	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 238	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 239	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 240	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 241	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 242	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 245	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 250	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 255	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 256	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 257	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 258	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 260	SC-H41-00K-112	C-CAP,10P-50V	a	b	c
MAIN		X	C 270	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		O	C 271	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	C 272	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		X	C 273	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		O	C 274	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 275	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	C 276	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		X	C 277	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		O	C 278	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	C 279	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	C 280	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	C 281	87-010-075-040	CAP,E 10UF-16V	a	b	c

ELECTRICAL PARTS LIST - 10/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	C 284	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		X	C 285	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 286	SC-H41-80K-412	CAP,CER 18PF-50V	a	b	c
MAIN		X	C 287	SC-H41-80K-412	CAP,CER 18PF-50V	a	b	c
MAIN		X	C 288	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A0	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A1	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A2	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 2A3	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A4	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A5	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A6	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A7	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A8	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2A9	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2B0	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2B1	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2B2	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2B3	SC-H14-73H-942	C-CAP,CER 0.0470UF-25V	a	b	c
MAIN		X	C 2B4	SC-H45-61K-512	C-CAP,CER 560PF-50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 2B5	SC-H45-61K-512	C-CAP,CER 560PF-50V	a	b	c
MAIN		X	C 2B6	SC-H13-33K-562	C-CAP,CER 0.033UF-50V	a	b	c
MAIN		X	C 2B7	SC-H13-33K-562	C-CAP,CER 0.033UF-50V	a	b	c
MAIN		X	C 2B8	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2B9	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2C0	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 2C1	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 2C2	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 2C3	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 2C4	SC-H12-22K-562	C-CAP,2200F-50V	a	b	c
MAIN		X	C 2C5	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2C8	SC-H43-30K-412	C-CAP,33P-50V	a	b	c
MAIN		X	C 2C9	SC-H43-30K-412	C-CAP,33P-50V	a	b	c
MAIN		X	C 2D0	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		O	C 2D1	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 2D2	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 2D3	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 2D4	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 2D5	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		X	C 2D6	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 2D7	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2E1	SC-H11-82K-562	C-CAP,CER 1800P-50V	a	b	c
MAIN		X	C 2M1	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2M2	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		O	C 2M3	87-010-553-080	CAP,E 47UF-16V	a	b	c
MAIN		O	C 2M4	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		X	C 2M5	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2M6	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2M7	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2M8	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2M9	SC-H12-23K-942	C-CAP,0.022UF-50V	a	b	c
MAIN		X	C 2N1	SC-H14-72K-562	C-CAP,4700P-50V	a	b	c
MAIN		X	C 2N2	SC-H11-03K-562	C-CAP,0.01UF-50V	a	b	c
MAIN		X	C 2N3	SC-H16-82K-562	C-CAP,CER 6800P-50V	a	b	c
MAIN		X	C 2N4	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2N5	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 2N6	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 301	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 302	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 303	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 304	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 305	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 306	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 307	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 308	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 309	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 310	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 311	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 312	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 313	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 314	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 315	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 316	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 317	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 318	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 319	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 320	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 321	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 322	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 323	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c

ELECTRICAL PARTS LIST - 11/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 324	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 325	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 326	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 327	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 328	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 329	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 330	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 331	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 332	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 333	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 334	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 335	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 336	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 337	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 338	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 339	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 340	SC-H11-03K-562	C-CAP,0.01UF-50V	a	b	c
MAIN		X	C 341	SC-H11-03K-562	C-CAP,0.01UF-50V	a	b	c
MAIN		X	C 380	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 382	SC-H41-00K-112	C-CAP,10P-50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 391	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 392	SC-H11-03K-562	C-CAP,0.01UF-50V	a	b	c
MAIN		X	C 3K1	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 3K2	SC-H41-50K-412	C-CAP,CER 15P-50V	a	b	c
MAIN		X	C 3K3	SC-H41-50K-412	C-CAP,CER 15P-50V	a	b	c
MAIN		X	C 501	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 502	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 503	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 504	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 506	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 507	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 508	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 509	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 512	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 513	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 514	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
MAIN		X	C 515	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 516	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 517	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 518	SC-H11-04K-942	C-CAP,0.1UF 50V	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	C 519	SC-H12-25F-944	C-CAP,2.2UF-16V	a	b	c
MAIN		X	C 520	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 522	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 523	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 525	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 526	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 529	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 531	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 532	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 533	SC-H42-21K-412	C-CAP,220P-50V	a	b	c
MAIN		X	C 534	SC-H45-60K-412	C-CAP,56P-50V	a	b	c
MAIN		O	C 536	87-010-075-040	CAP,E 10UF-16V	a	b	c
MAIN		O	D 2A1	SD-S20-200-9CA	DIODE,DAN202K	a	b	c
MAIN		O	D 2A2	SD-S20-200-9CA	DIODE,DAN202K	a	b	c
MAIN		O	IC 201	SI-HY2-580-10C	IC,GDC25D801D	a	b	c
MAIN		O	IC 203	SI-JR3-414-00C	IC,NJM3414AM-TE1,3K/REEL	a	b	c
MAIN		O	IC 204	SI-STL-KE0-09A	IC,KIC7W53FU	a	b	c
MAIN		S	IC 205	SI-MMR-EB0-01A	IC,M11L416256A-35J	a	b	c
MAIN		O	IC 206	SI-TO7-040-00F	IC,TC7W04FU	a	b	c
MAIN		O	IC 2A1	SI-TI3-337-21A	IC,SSI33P3721	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	IC 2A2	SI-JR3-414-00C	IC,NJM3414AM-TE1,3K/REEL	a	b	c
MAIN		O	IC 2M1	SI-LNR-FA0-04A	IC,FAN8727	a	b	c
MAIN		S	IC 301	SI-CU4-100-00B	IC,C-CUBE ZIVA4.	a	b	c
MAIN		S	IC 302	SI-EB1-216-16A	IC,M12L16161A-7T	a	b	c
MAIN		S	IC 303	SI-EB1-216-16A	IC,M12L16161A-7T	a	b	c
MAIN		O	IC 304	SI-TO7-040-00F	IC,TC7W04FU	a	b	c
MAIN		O	IC 305	SI-TO7-040-00F	IC,TC7W04FU	a	b	c
MAIN		O	IC 501	SI-HI6-417-03B	IC,HD6417034AFI20	a	b	c
MAIN		O	IC 502	SI-AL4-981-92B	IC,AT49F8192A-90TC	a	b	c
MAIN		O	IC 503	SI-EB1-141-62A	IC,NM11B416256A-35J	a	b	c
MAIN		O	IC 504	SI-SS2-402-10A	IC,KS24C021CS	a	b	c
MAIN		O	IC 505	SI-STL-ON0-03A	IC,MC74VHC374DTR2	a	b	c
MAIN		O	IC 506	SI-HY6-020-02A	IC,HS602002	a	b	c
MAIN		O	L 201	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 202	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 203	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 204	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 207	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 208	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 211	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c

ELECTRICAL PARTS LIST - 12/14

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	L 2A1	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 2A2	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 301	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 302	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 303	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 304	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 307	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 308	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 309	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 310	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 311	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 501	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 502	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 503	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 505	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 506	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	L 507	S2-00H-JC1-02A	CER,FILTER HB-1M2012-102JT	a	b	c
MAIN		O	P 3401	S6-30R-BE0-340	CONN,BOAR2254-30S-T	a	b	c
MAIN		O	P 5502	S6-30X-E00-115	F-CABLE,04-6232-015-010-000 E	a	b	c
MAIN		O	P 5901	S6-30R-BE0-340	CONN,BOAR2254-30S-T	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	PMD02	S6-30R-FB1-0W0	CONNECTOR (CIRC),FFC/FPC	a	b	c
MAIN		O	PMD03	S6-30R-FB1-0T0	CONNECTOR FFC/FPC	a	b	c
MAIN		O	Q 2A1	ST-R15-040-9AC	TR,KTA1504-GR-T1	a	b	c
MAIN		O	Q 2A2	ST-R15-040-9AC	TR,KTA1504-GR-T1	a	b	c
MAIN		O	Q 2M1	ST-R10-300-9AA	C-TR,KRC103S-T1	a	b	c
MAIN		O	Q 303	ST-R10-000-9BM	TR,UMZ1N 3K	a	b	c
MAIN		X	R 201	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 202	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 203	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 204	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 207	SR-H10-04C-622	C-RES,1M-1/16W	a	b	c
MAIN		X	R 217	SR-H01-02C-622	RES,10-1/16W	a	b	c
MAIN		X	R 218	SR-H47-00C-622	RES,470-1/16W	a	b	c
MAIN		X	R 219	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 220	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 221	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 230	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 231	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 232	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 233	SR-H10-00C-622	RES,100-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 234	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 235	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 236	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 237	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 239	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 240	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 241	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 242	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 244	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 271	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 273	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 274	SR-H62-00C-622	RES,620-1/16W	a	b	c
MAIN		X	R 275	SR-H91-00C-622	RES,910-1/16W	a	b	c
MAIN		X	R 276	SR-H91-00C-622	RES,910-1/16W	a	b	c
MAIN		X	R 277	SR-H15-00C-622	RES,150 1/16W	a	b	c
MAIN		X	R 278	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 279	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 280	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 281	SR-H22-01C-622	RES,2.2K-1/16W	a	b	c
MAIN		X	R 291	SR-H00-00C-622	RES,0-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 292	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 293	SR-H20-01C-622	RES,2K-1/16W	a	b	c
MAIN		X	R 294	SR-H15-00C-622	RES,150 1/16W	a	b	c
MAIN		X	R 295	SR-H20-01C-622	RES,2K-1/16W	a	b	c
MAIN		X	R 296	SR-H15-00C-622	RES,150 1/16W	a	b	c
MAIN		X	R 297	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 2A0	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2A1	SR-H09-12C-622	C-RES,91-1/16W	a	b	c
MAIN		O	R 2A2	SR-H12-02C-422	C-RES,M 12K-1/16W	a	b	c
MAIN		X	R 2A4	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 2A5	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2A6	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2A9	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2B1	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 2B2	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2B3	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2B4	SR-H01-82C-622	RES,18-1/16W	a	b	c
MAIN		X	R 2B5	SR-H01-82C-622	RES,18-1/16W	a	b	c
MAIN		X	R 2B6	SR-H22-02C-622	RES,22K-1/16W	a	b	c
MAIN		X	R 2B7	SR-H68-01C-622	RES,6.8K-1/16W	a	b	c

ELECTRICAL PARTS LIST - 13/14

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 2B8	SR-H15-03C-622	C-RES,150K-1/16W	a	b	c
MAIN		X	R 2B9	SR-H15-03C-622	C-RES,150K-1/16W	a	b	c
MAIN		X	R 2C0	SR-H39-02C-622	C-RES,39K-1/16W	a	b	c
MAIN		X	R 2C1	SR-H39-02C-622	C-RES,39K-1/16W	a	b	c
MAIN		X	R 2C2	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2C3	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2C4	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 2C6	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2C7	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2C8	SR-H01-82C-622	RES,18-1/16W	a	b	c
MAIN		X	R 2C9	SR-H01-82C-622	RES,18-1/16W	a	b	c
MAIN		X	R 2D0	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2D1	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2D2	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2D6	SR-H09-12C-622	C-RES,91-1/16W	a	b	c
MAIN		O	R 2D7	SR-H04-71C-622	C-RES,M 4.7-1/16W	a	b	c
MAIN		X	R 2E6	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2E7	SR-H68-01C-622	RES,6.8K-1/16W	a	b	c
MAIN		X	R 2E9	SR-H56-01C-622	RES,5.6K-1/16W	a	b	c
MAIN		O	R 2M1	SR-H01-01D-622	C-RES,M 1-1/10W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	R 2M2	SR-H01-01D-622	C-RES,M 1-1/10W	a	b	c
MAIN		X	R 2M3	SR-H22-02C-622	RES,22K-1/16W	a	b	c
MAIN		X	R 2M4	SR-H18-02C-622	C-RES,18K-1/16W	a	b	c
MAIN		X	R 2M5	SR-H15-02C-622	RES,15K 1/16W	a	b	c
MAIN		X	R 2M6	SR-H22-02C-622	RES,22K-1/16W	a	b	c
MAIN		X	R 2M7	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 2M8	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2M9	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2N1	SR-H68-01C-622	RES,6.8K-1/16W	a	b	c
MAIN		X	R 2N2	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2N3	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2N4	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2N5	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2N6	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 2N8	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2N9	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2P1	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2P2	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 2P6	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 2Q7	SR-H68-01C-622	RES,6.8K-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 2Q8	SR-H33-01C-622	C-RES,3.3K-1/16W	a	b	c
MAIN		X	R 301	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 302	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 303	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 306	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 307	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 308	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 309	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 310	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 311	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 312	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 313	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 314	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 315	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 316	SR-H12-00C-622	RES,120 1/16W	a	b	c
MAIN		X	R 317	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 318	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 319	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 320	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 321	SR-H03-32C-622	RES,33-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 322	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 323	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 324	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 325	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 326	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 327	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 328	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 329	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 330	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 331	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 332	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 333	SR-H03-32C-622	RES,33-1/16W	a	b	c
MAIN		X	R 335	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 340	SR-H11-81C-422	C-RES,1.18K-1/16W	a	b	c
MAIN		X	R 341	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 342	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 343	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 344	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 345	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 346	SR-H10-00C-622	RES,100-1/16W	a	b	c

ELECTRICAL PARTS LIST - 14/14

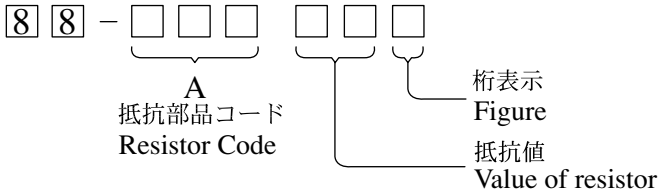
! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 347	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 348	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 349	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		O	R 350	SR-H03-31D-622	C-RES,M 3.3-1/10W	a	b	c
MAIN		O	R 351	SR-H03-31D-622	C-RES,M 3.3-1/10W	a	b	c
MAIN		X	R 391	SR-H33-00C-622	RES,330-1/16W	a	b	c
MAIN		X	R 392	SR-H33-00C-622	RES,330-1/16W	a	b	c
MAIN		X	R 393	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 394	SR-H27-00C-622	C-RES,270-1/16W	a	b	c
MAIN		X	R 395	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 396	SR-H07-52C-622	RES,75-1/16W	a	b	c
MAIN		X	R 397	SR-H07-52C-622	RES,75-1/16W	a	b	c
MAIN		X	R 398	SR-H07-52C-622	RES,75-1/16W	a	b	c
MAIN		X	R 399	SR-H07-52C-622	RES,75-1/16W	a	b	c
MAIN		X	R 3K1	SR-H10-04C-622	C-RES,1M-1/16W	a	b	c
MAIN		X	R 504	SR-H68-00C-622	RES,680-1/16W	a	b	c
MAIN		X	R 507	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 508	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 510	SR-H33-00C-622	RES,330-1/16W	a	b	c
MAIN		X	R 511	SR-H33-00C-622	RES,330-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 512	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 513	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 514	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 517	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 519	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 524	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 525	SR-H00-00C-622	RES,0-1/16W	a	b	c
MAIN		X	R 535	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 536	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 537	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 546	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 547	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 548	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 549	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 550	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 551	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 552	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 553	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 554	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 555	SR-H10-00C-622	RES,100-1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		X	R 557	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 558	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 559	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 560	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 562	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 564	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 565	SR-H47-02C-622	RES,47K-1/16W	a	b	c
MAIN		X	R 569	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 570	SR-H10-02C-622	RES,10K 1/16W	a	b	c
MAIN		X	R 574	SR-H47-01C-622	RES,4.7K-1/16W	a	b	c
MAIN		X	R 576	SR-H47-02C-622	RES,47K-1/16W	a	b	c
MAIN		X	R 577	SR-H47-02C-622	RES,47K-1/16W	a	b	c
MAIN		X	R 581	SR-H10-01C-622	RES,1K-1/16W	a	b	c
MAIN		X	R 582	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 583	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 584	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 588	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 589	SR-H12-01C-622	RES,1.2K-1/16W	a	b	c
MAIN		X	R 593	SR-H10-00C-622	RES,100-1/16W	a	b	c
MAIN		X	R 598	SR-H10-02C-622	RES,10K 1/16W	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
MAIN		O	X 201	S2-02R-BM0-4D0	CRYSTAL,STANDARD 33.868	a	b	c
MAIN		O	X 3K1	S2-02R-BL0-6D0	CRYSTAL,STANDARD 27MHZ	a	b	c
MAIN		O	X 501	S2-12R-L00-2A0	RESONATOR CSTCW20M0X53-R0 20M	a	b	c
POWER LED		O	LED901	SD-L32-531-9AA	LED SPR325MVWT31(GRN)	a	b	c
POWER LED		O	P 9901	S5-636-02R-000	CONN,4P	a	b	c
POWER LED		X	R 921	SR-D10-00F-608	RES,100-1/6W	a	b	c
POWER LED		O	SW 901	S5-562-19B-000	SWITCH,TACT THVV502GAA 12V 5A	a	b	c

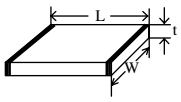
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



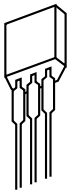
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード　：A Resistor Code：A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

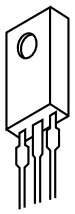
E C B

KTC3198
KTC3199



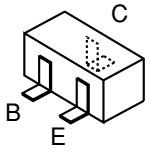
E C B

KTA1267
KTC103

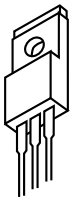


E C B

KSB1151

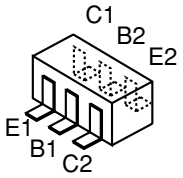


KTA1504



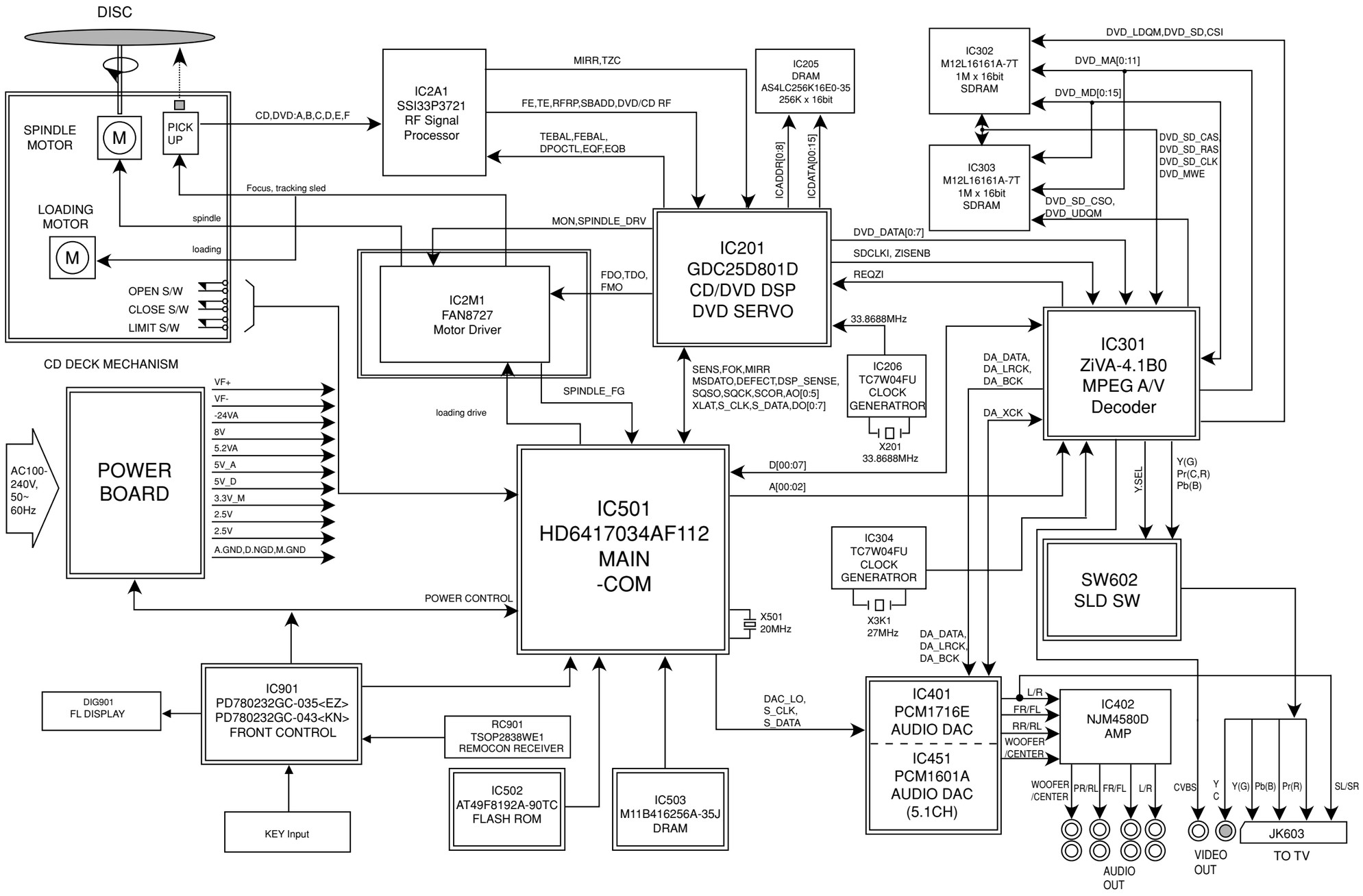
B C E

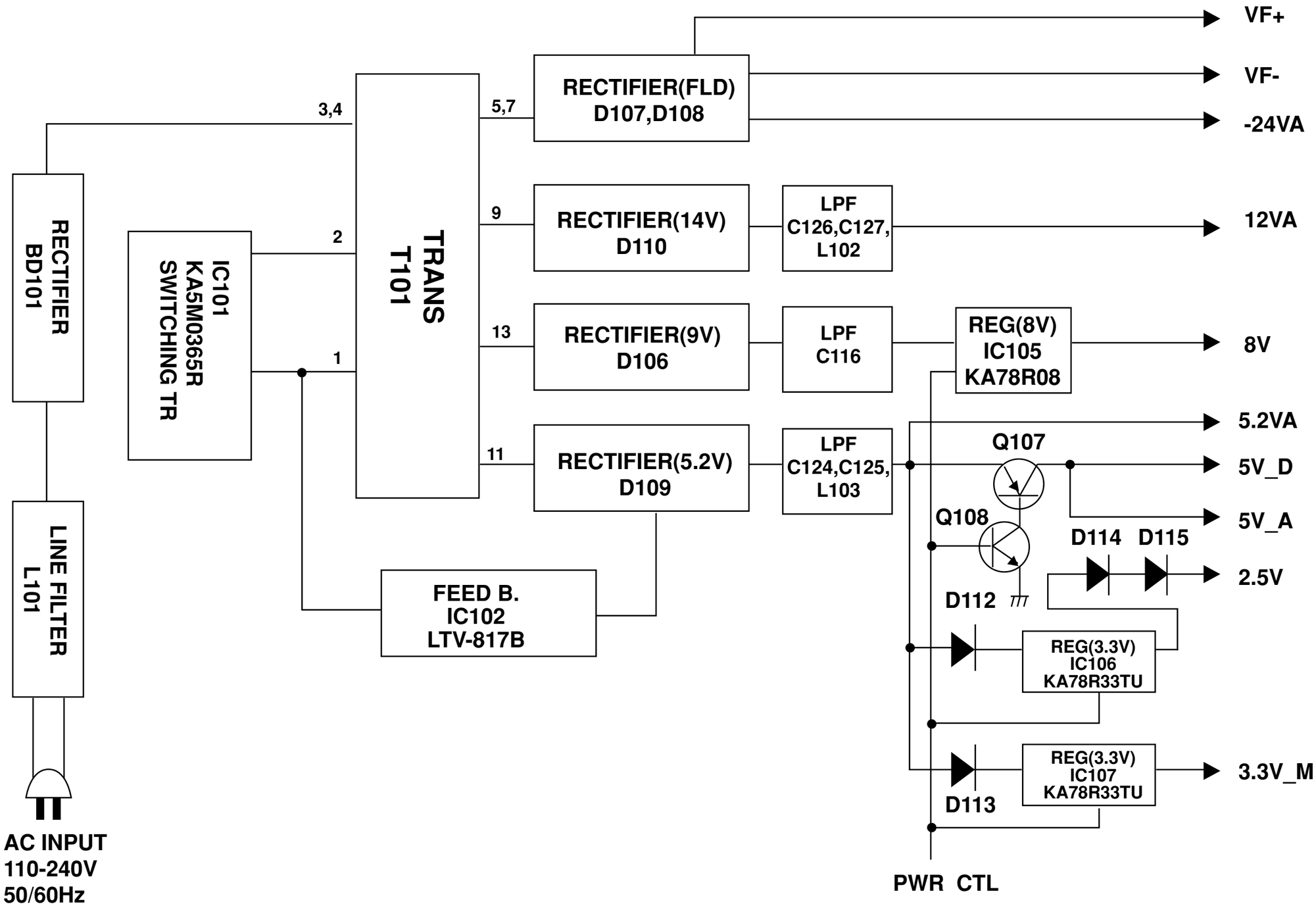
KSE13005F

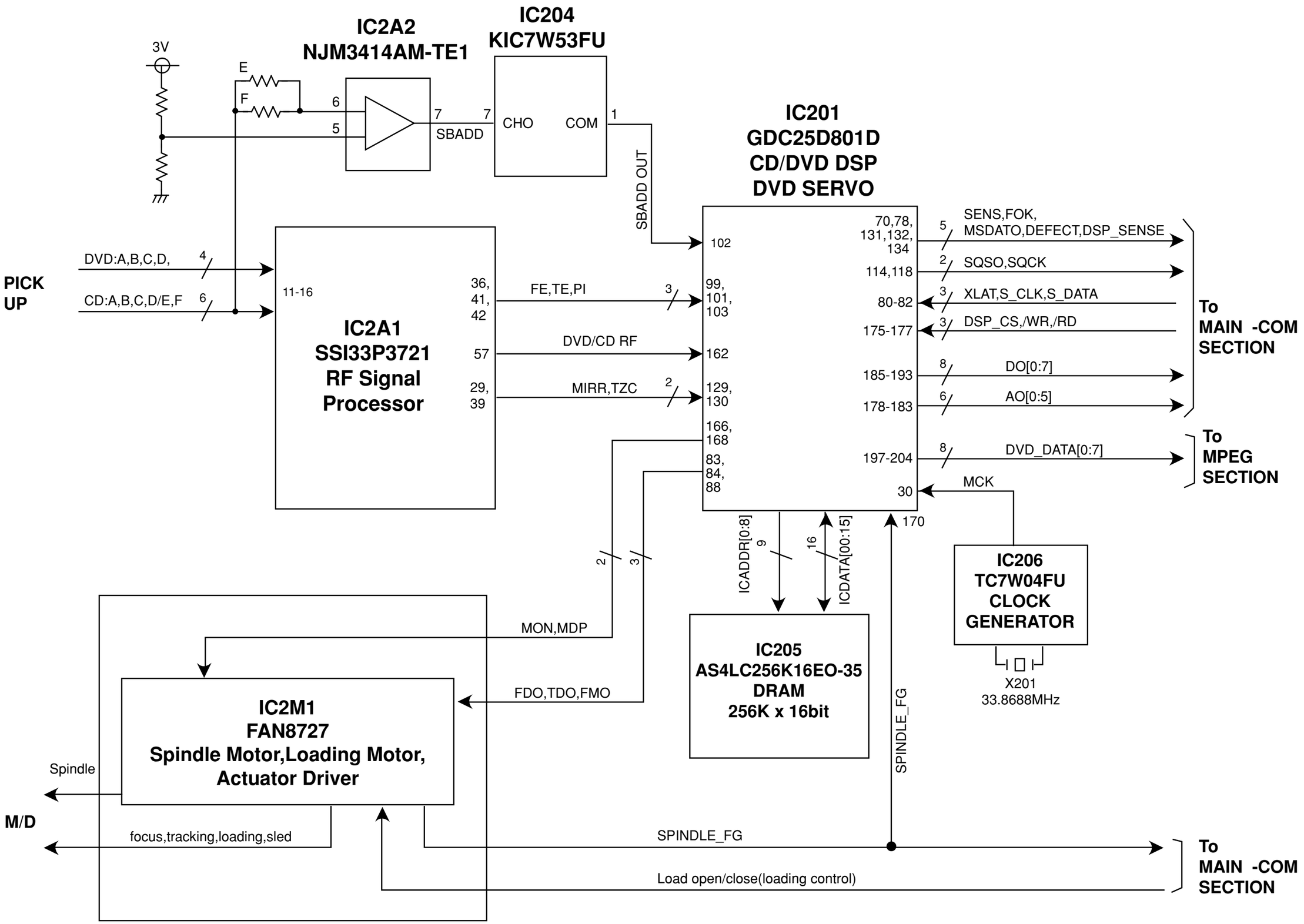


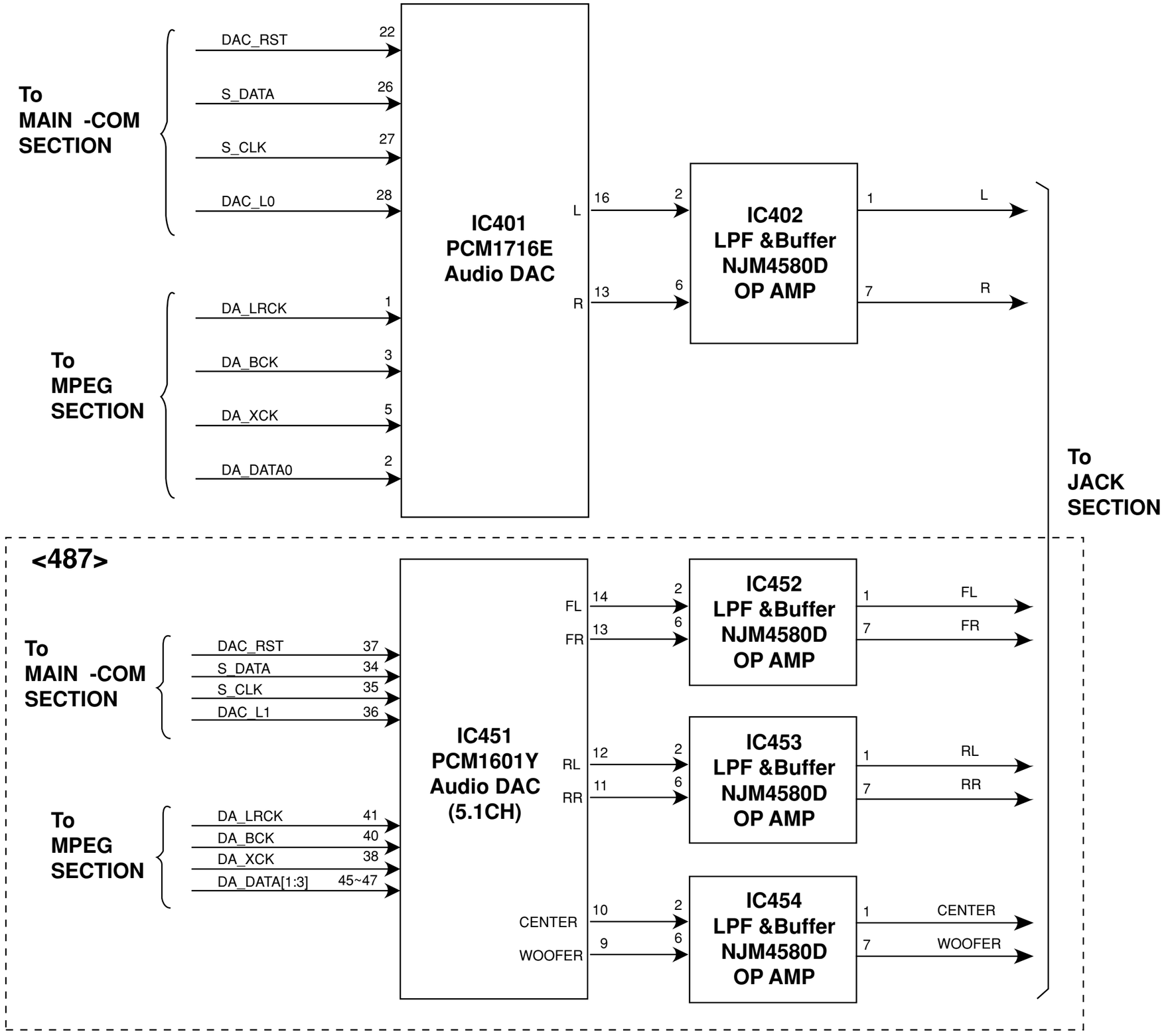
UMZ1N 3K

BLOCK DIAGRAM -1/6 (OVERALL SECTION)

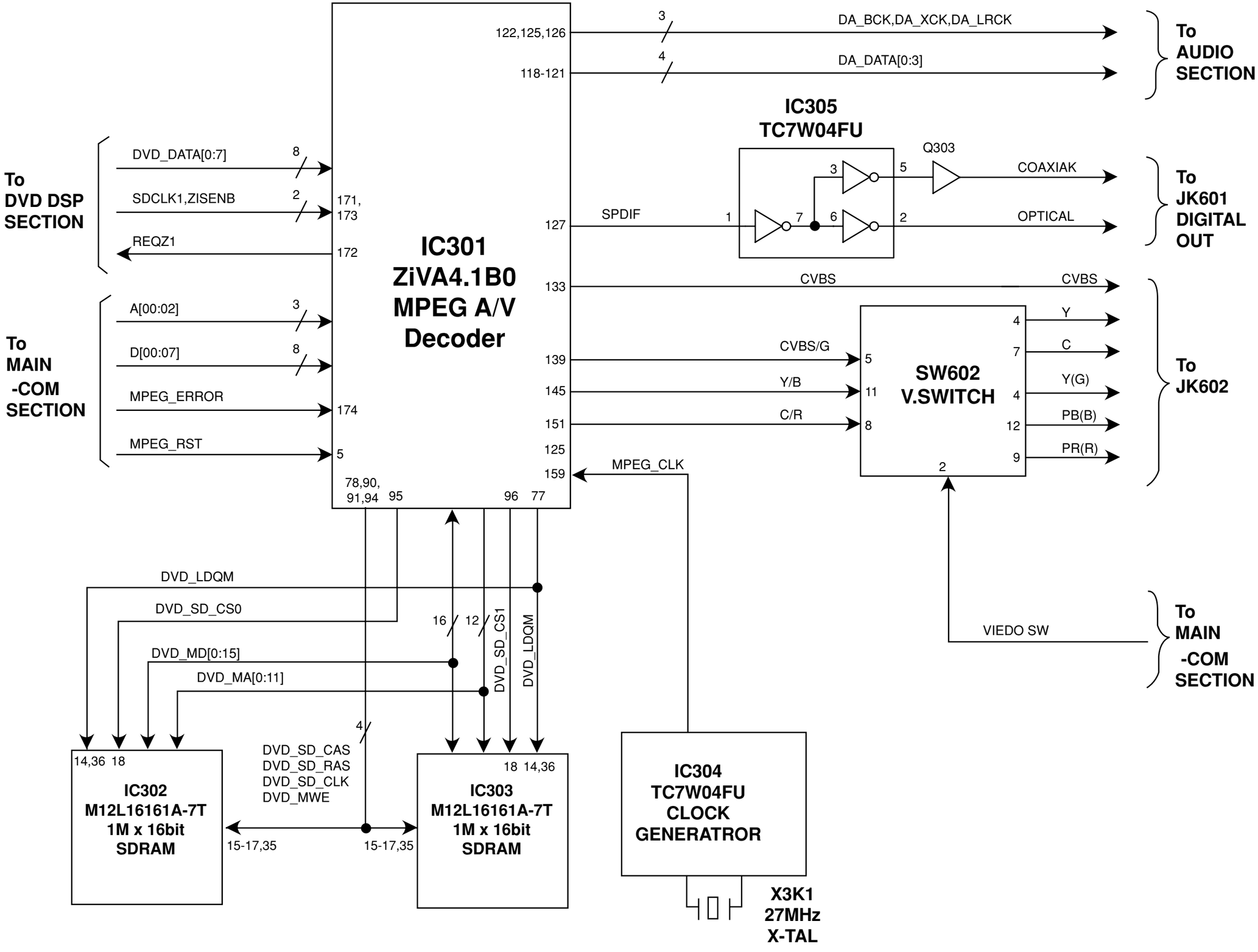



VF+
VF-
-24VA
12VA
8V
5.2VA
5V_D
5V_A
2.5V
3.3V_M
PWR CTL
RECTIFIER(FLD)
D107,D108
RECTIFIER(14V)
D110
LPF
C126,C127,
L102
RECTIFIER(9V)
D106
LPF
C116
REG(8V)
IC105
KA78R08
RECTIFIER(5.2V)
D109
LPF
C124,C125,
L103
Q107
Q108
D114
D115
D112
D113
REG(3.3V)
IC106
KA78R33TU
REG(3.3V)
IC107
KA78R33TU
TRANS
T101
IC101
KA5M0365R
SWITCHING TR
FEED B.
IC102
LTV-817B
RECTIFIER
BD101
LINE FILTER
L101
AC INPUT
110-240V
50/60Hz
3,4
2
1
5,7
9
13
11

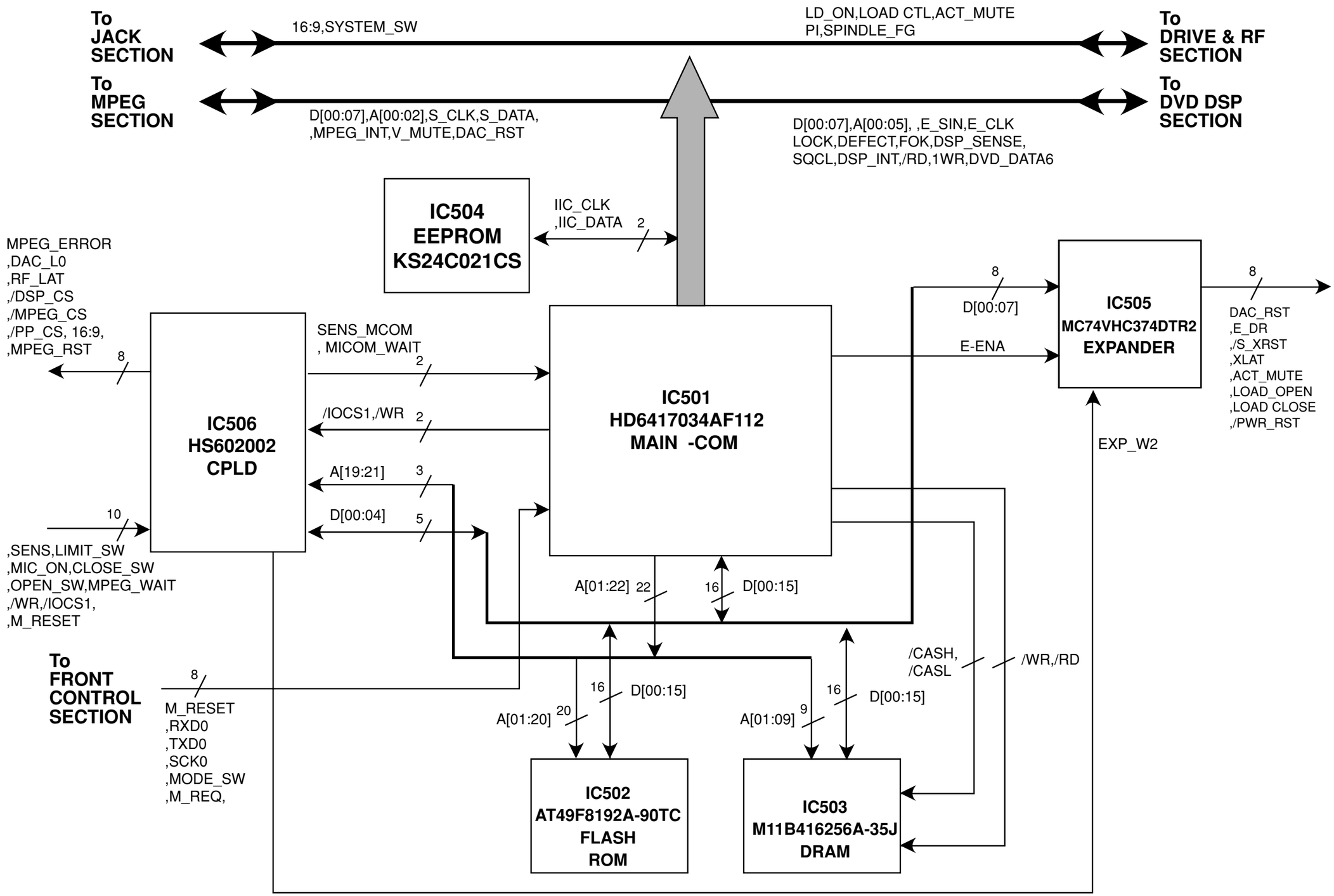

IC2A2
NJM3414AM-TE1
IC204
KIC7W53FU
3V
E
F
6
5
7
7
SBADD
CHO
COM
1
SBADD OUT
IC201
GDC25D801D
CD/DVD DSP
DVD SERVO
PICK
UP
DVD:A,B,C,D,
4
CD:A,B,C,D/E,F
6
11-16
IC2A1
SSI33P3721
RF Signal
Processor
36,
41,
42
FE,TE,PI
3
57
DVD/CD RF
29,
39
MIRR,TZC
2
102
99,
101,
103
162
129,
130
166,
168
83,
84,
88
70,78,
131,132,
134
5
SENS,FOK,
MSDATO,DEFECT,DSP_SENSE
114,118
2
SQSO,SQCK
80-82
3
XLAT,S_CLK,S_DATA
175-177
3
DSP_CS,/WR,/RD
185-193
8
DO[0:7]
178-183
6
AO[0:5]
To
MAIN -COM
SECTION
197-204
8
DVD_DATA[0:7]
To
MPEG
SECTION
30
MCK
170
2
3
ICADDR[0:8]
9
16
ICDATA[00:15]
IC206
TC7W04FU
CLOCK
GENERATOR
X201
33.8688MHz
IC205
AS4LC256K16EO-35
DRAM
256K x 16bit
MON,MDP
FDO,TDO,FMO
SPINDLE_FG
IC2M1
FAN8727
Spindle Motor,Loading Motor,
Actuator Driver
Spindle
M/D
focus,tracking,loading,sled
SPINDLE_FG
Load open/close(loading control)
To
MAIN -COM
SECTION


To
MAIN -COM
SECTION
DAC_RST
22
S_DATA
26
S_CLK
27
DAC_L0
28
To
MPEG
SECTION
DA_LRCK
1
DA_BCK
3
DA_XCK
5
DA_DATA0
2
IC401
PCM1716E
Audio DAC
L
16
R
13
2
6
IC402
LPF &Buffer
NJM4580D
OP AMP
1
L
7
R
To
JACK
SECTION
<487>
To
MAIN -COM
SECTION
DAC_RST
37
S_DATA
34
S_CLK
35
DAC_L1
36
To
MPEG
SECTION
DA_LRCK
41
DA_BCK
40
DA_XCK
38
DA_DATA[1:3]
45~47
IC451
PCM1601Y
Audio DAC
(5.1CH)
FL
14
FR
13
RL
12
RR
11
CENTER
10
WOOFER
9
2
6
IC452
LPF &Buffer
NJM4580D
OP AMP
IC453
LPF &Buffer
NJM4580D
OP AMP
IC454
LPF &Buffer
NJM4580D
OP AMP
1
FL
7
FR
RL
RR
CENTER
WOOFER

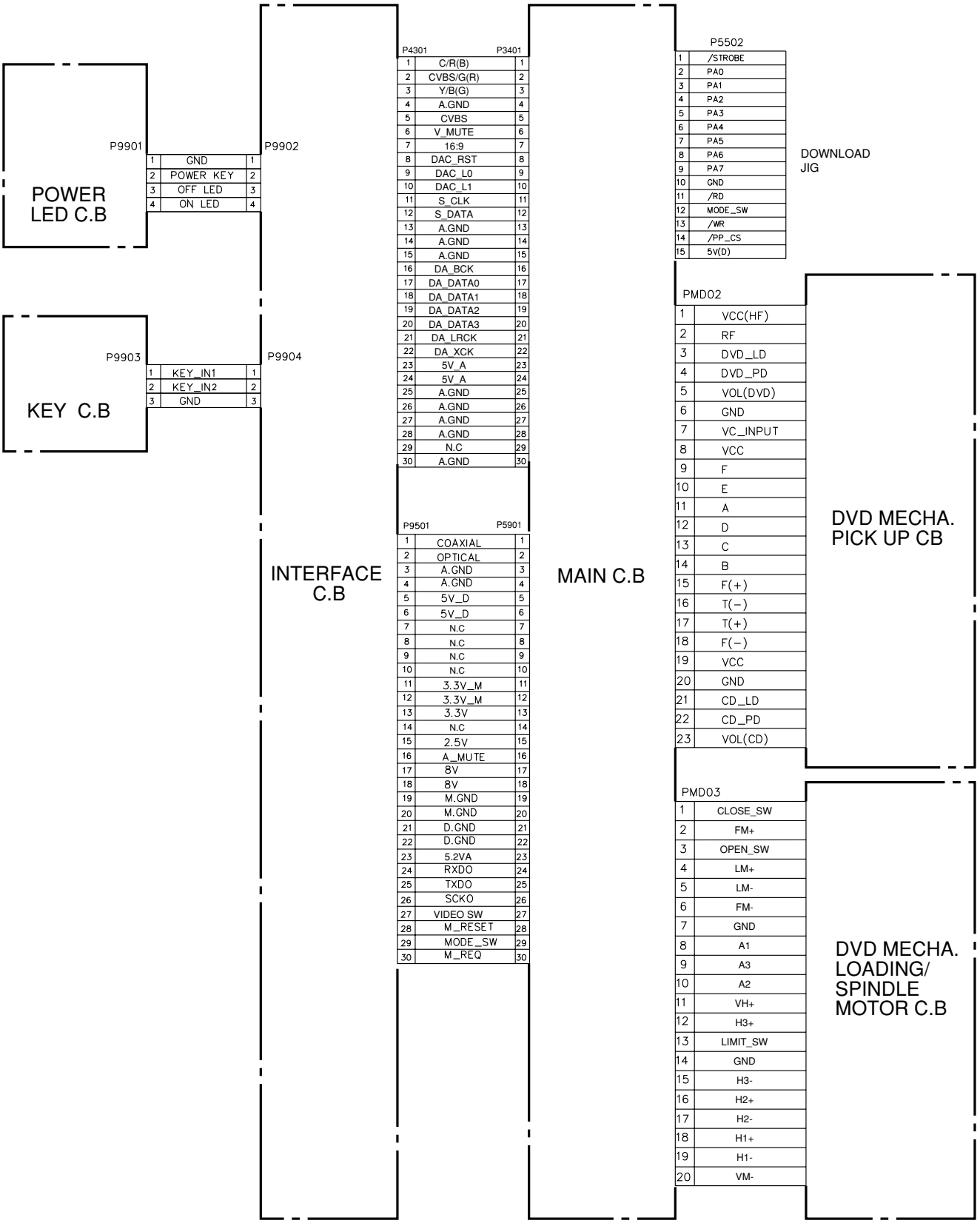
BLOCK DIAGRAM -5/6 (MPEG SECTION)



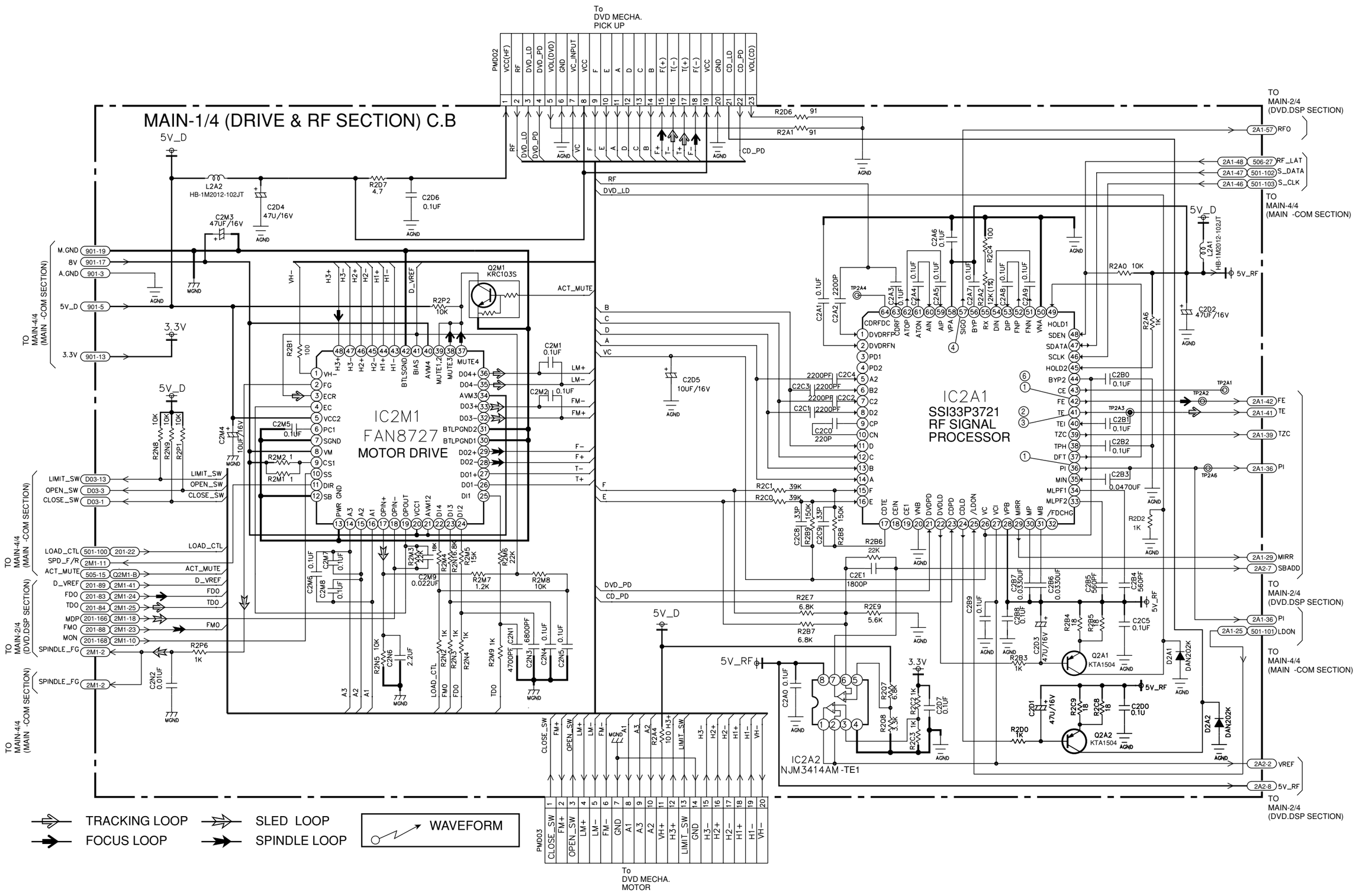
BLOCK DIAGRAM -6/6 (µ-COM SECTION)



WIRE HARNESS DIAGRAM -1/1



SCHEMATIC DIAGRAM - 1/9 (MAIN -1/4, DRIVE & RF SECTION)



MAIN-2/4 (DVD DSP SECTION) C.B

IC201
GDC25D801D
CD/DVD DSP
DVD SERVO

IC205
AS4LC256K16E0-35
DRAM

IC206
TC7W04FU
CLOCK GENERATOR

IC204
KIC7W53FU

IC203
NJM3414AM-TE1

TO
MAIN-4/4
(MAIN -COM
SECTION)

TO
MAIN-1/4
(DRIVE & RF
SECTION)

TO
MAIN-3/4
(MPEG SECTION)

L201~204,-L207,L208,L211
HB : HB-1M2012-102JT

TRACKING LOOP
FOCUS LOOP
SLED LOOP
SPINDLE LOOP
WAVEFORM

MAIN-3/4 (MPEG SECTION) C.B

IC301
ZIVA_4.1B0
MPEG A/V
DECODER

IC302 SDRAM
M12L16161A-7T

IC303 SDRAM
M12L16161A-7T

L301-L304,L307-L311
HB : HB-1M2012-102JT

TO
INTERFACE-1/4 C.B
(AUDIO SECTION)
P4301

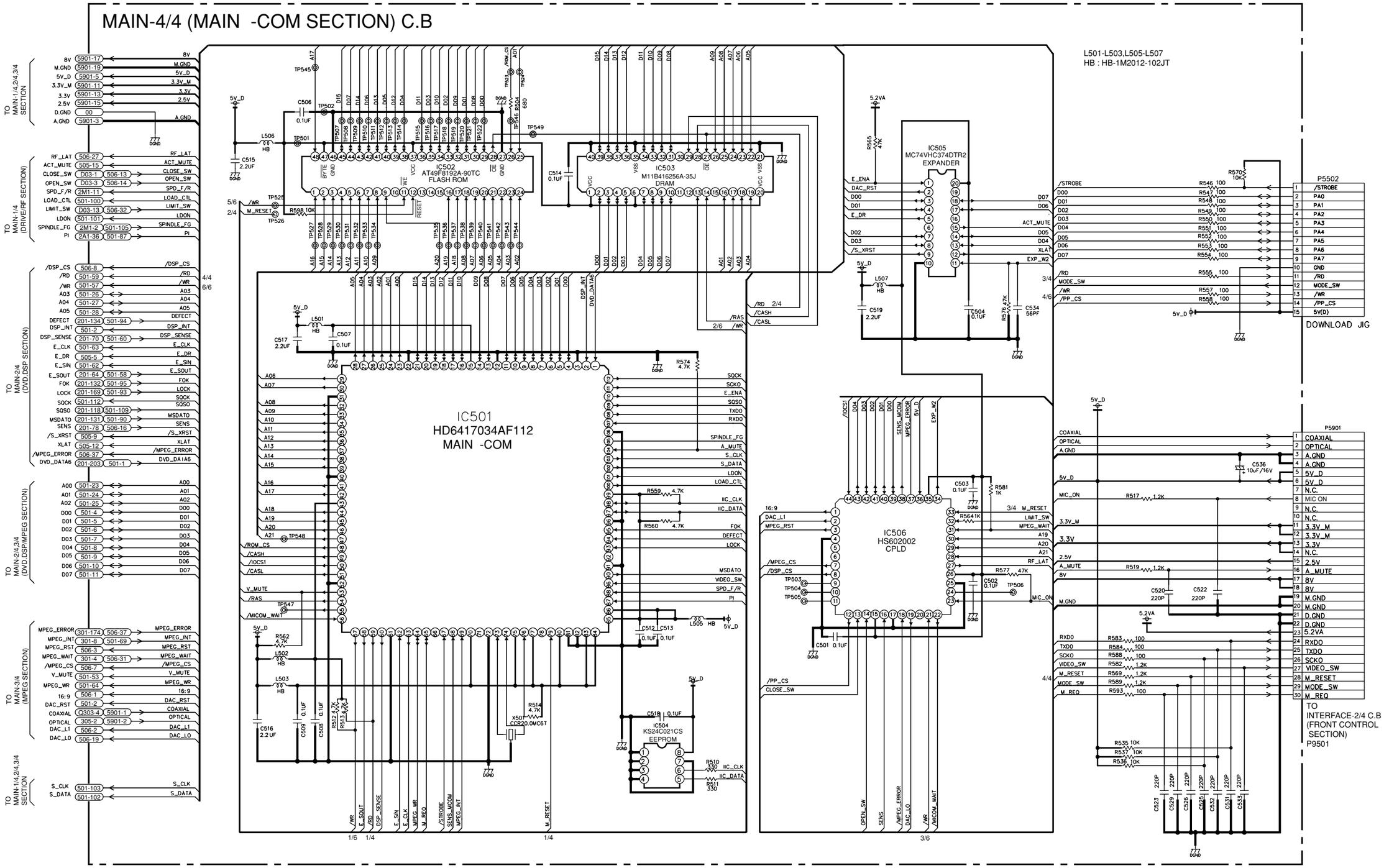
TO
MAIN-2/4
(DVD DSP
SECTION)

TO
MAIN-4/4
(MAIN -COM
SECTION)

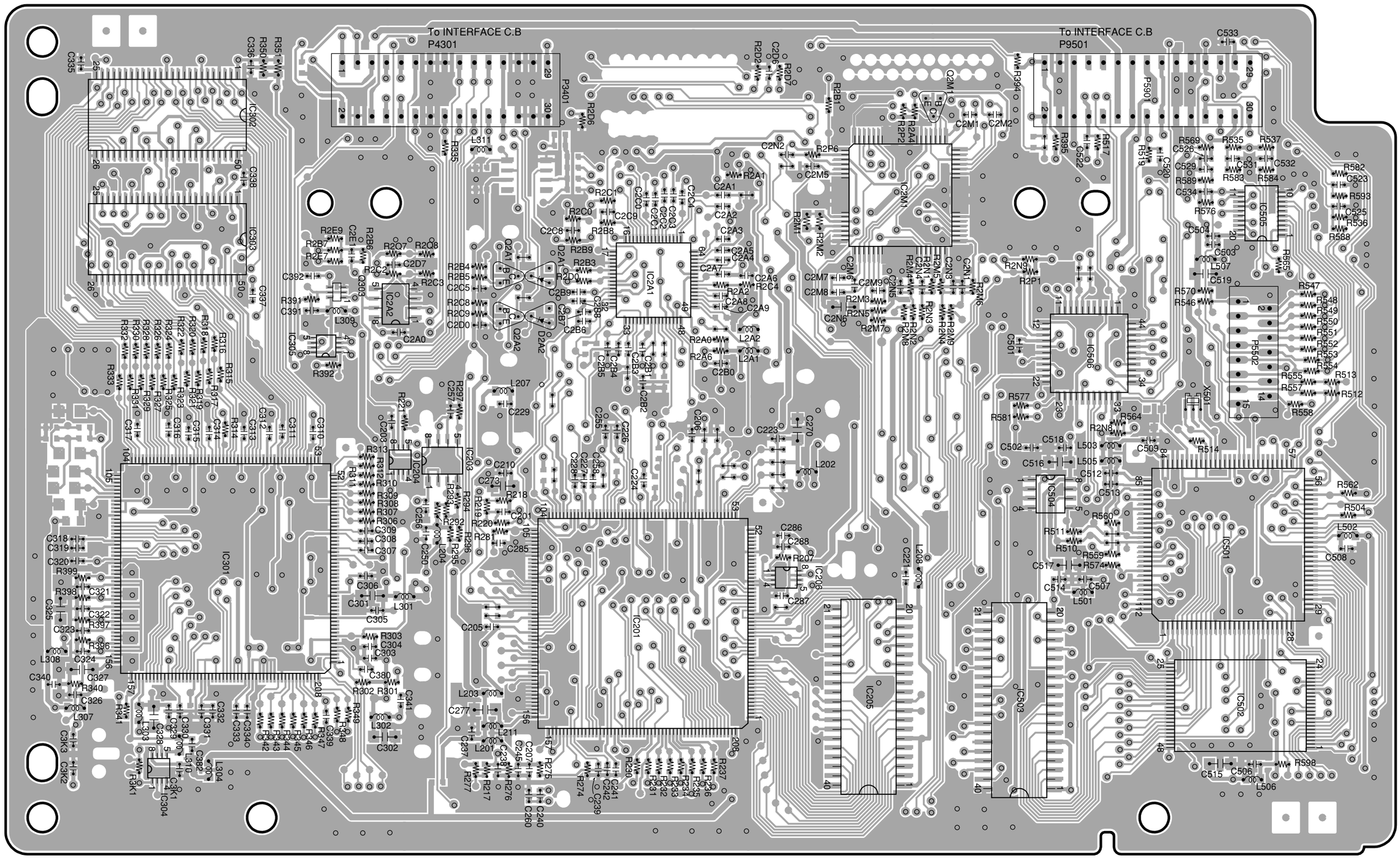
TO
MAIN-4/4
(MAIN -COM
SECTION)

WAVEFORM

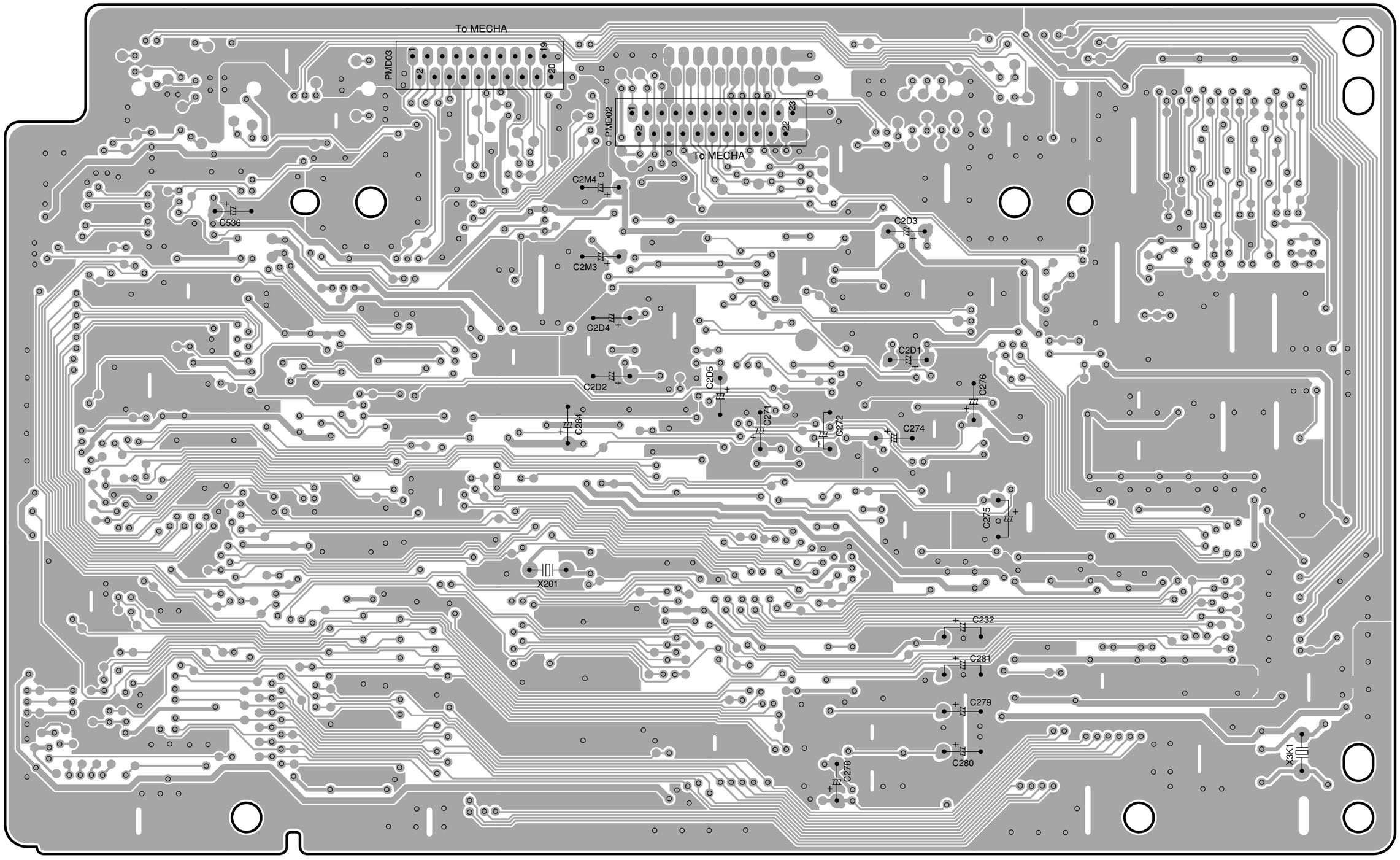
SCHEMATIC DIAGRAM - 4/9 (MAIN -4/4, MAIN μ-COM SECTION)



MAIN C.B (Top view)



MAIN C.B (Bottom view)



INTERFACE-1/4 (AUDIO SECTION) C.B

IC403 KA78R12 12V REG

IC401 PCM1716E AUDIO DAC

IC451 PCM1601Y AUDIO DAC(5.1CH)

IC402 NJM4580D LPF & BUFFER OP AMP

IC452 NJM4580D LPF & BUFFER OP AMP

IC453 NJM4580D LPF & BUFFER OP AMP

IC454 NJM4580D LPF & BUFFER OP AMP

<487>

P4301

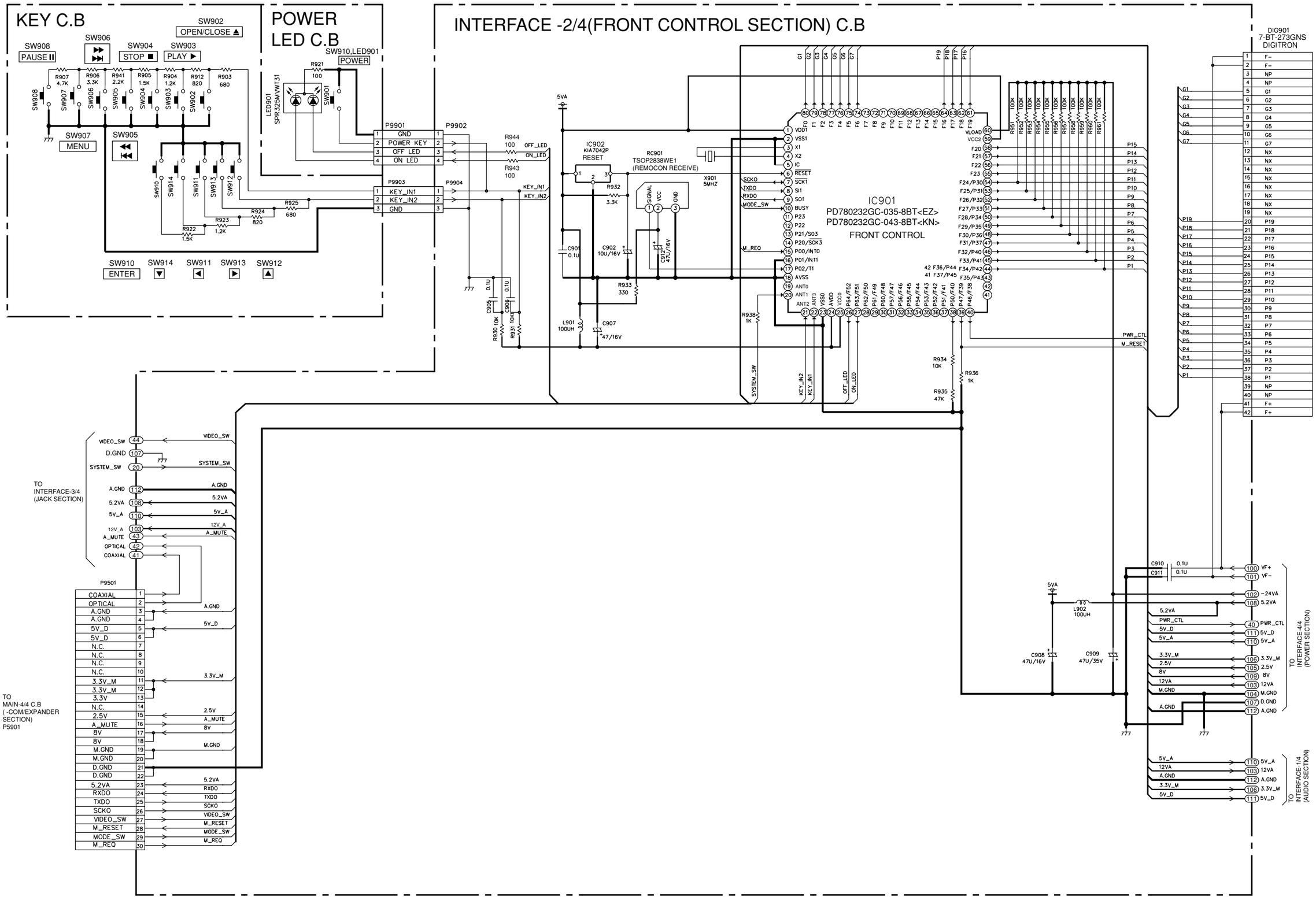
TO MAIN-3/4 C.B (MPEG SECTION) P3401

TO INTERFACE-3/4 (JACK SECTION)

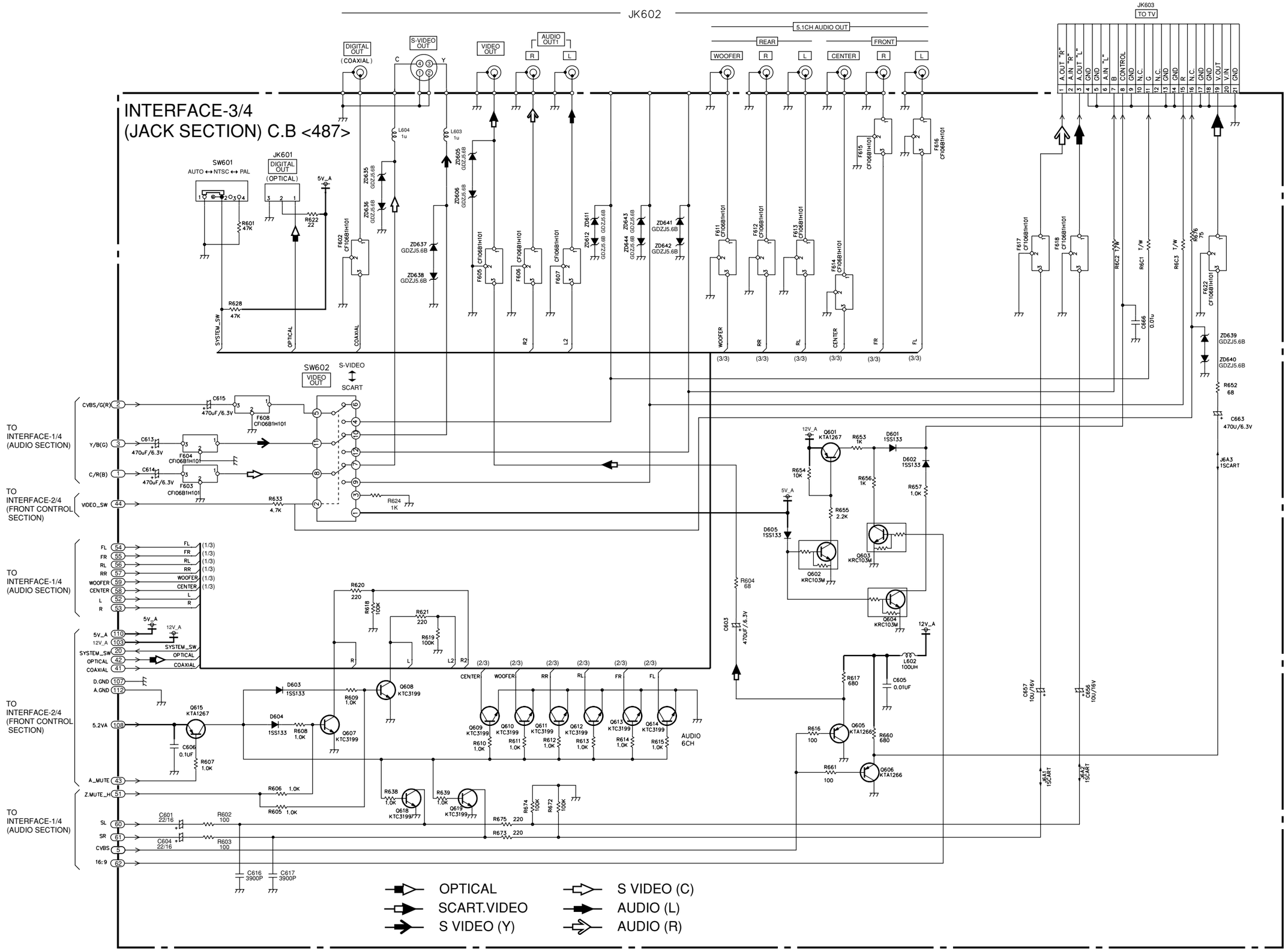
TO INTERFACE-2/4 (FRONT CONTROL SECTION)

2CH L SIGNAL
2CH R SIGNAL
5.1CH FL SIGNAL
5.1CH FR SIGNAL
5.1CH RL SIGNAL
5.1CH RR SIGNAL
5.1CH CENTER SIGNAL
5.1CH WOOFER SIGNAL

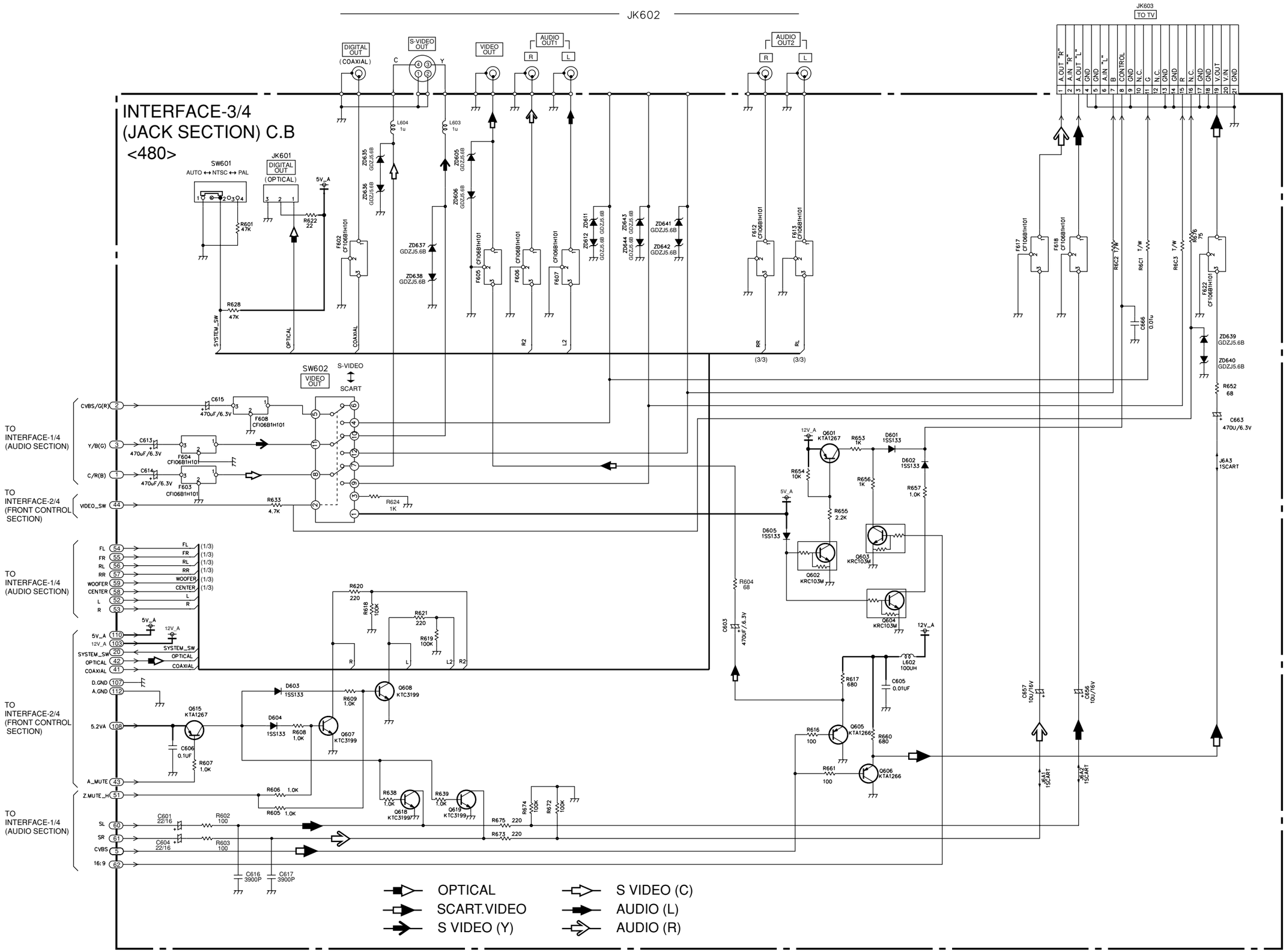
SCHEMATIC DIAGRAM - 6/9 (INTERFACE -2/4, FRONT CONTROL, KEY, POWER LED SECTION)



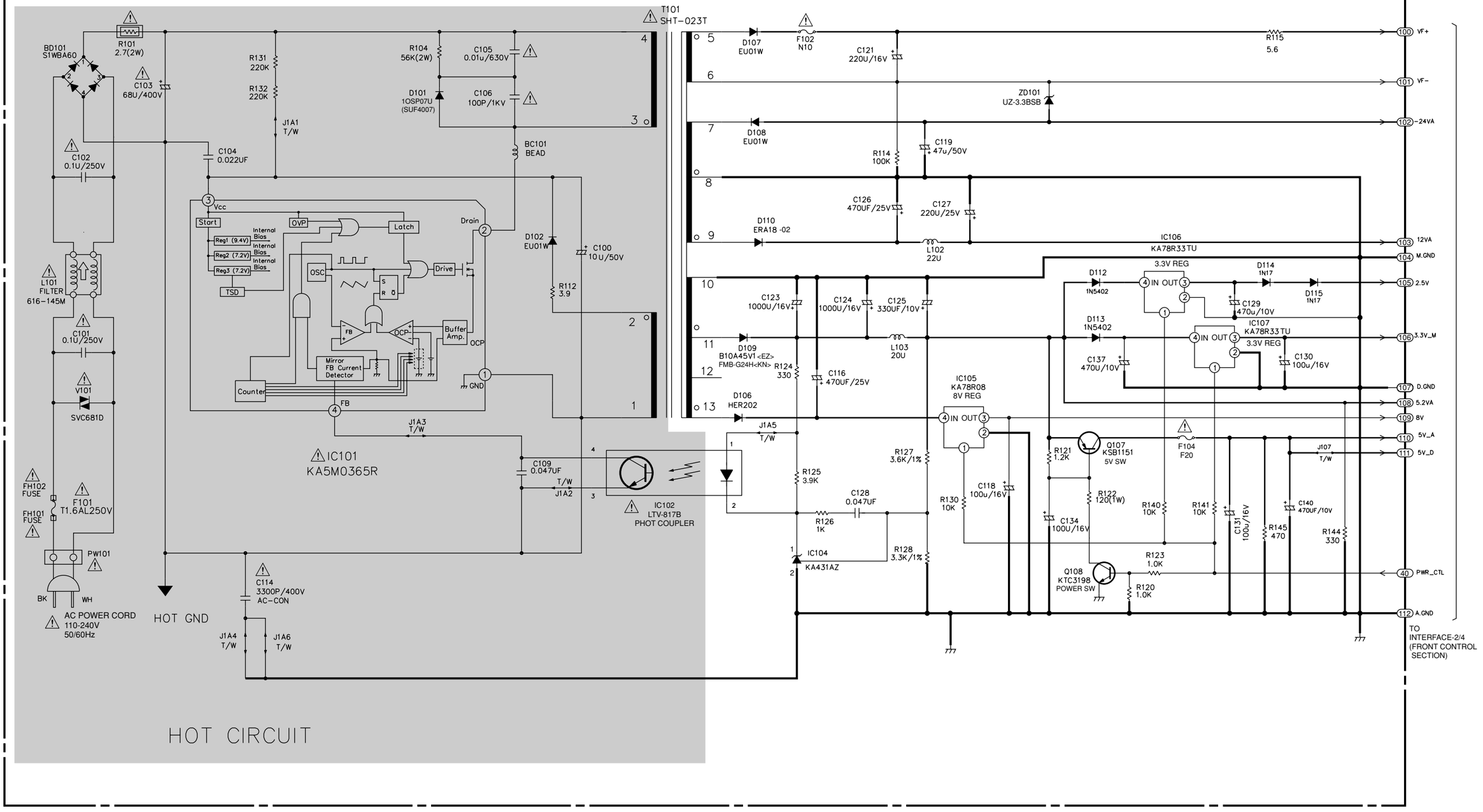
SCHEMATIC DIAGRAM - 7/9 (INTERFACE -3/4, JACK SECTION) <487>



SCHEMATIC DIAGRAM - 8/9 (INTERFACE -3/4, JACK SECTION) <480>



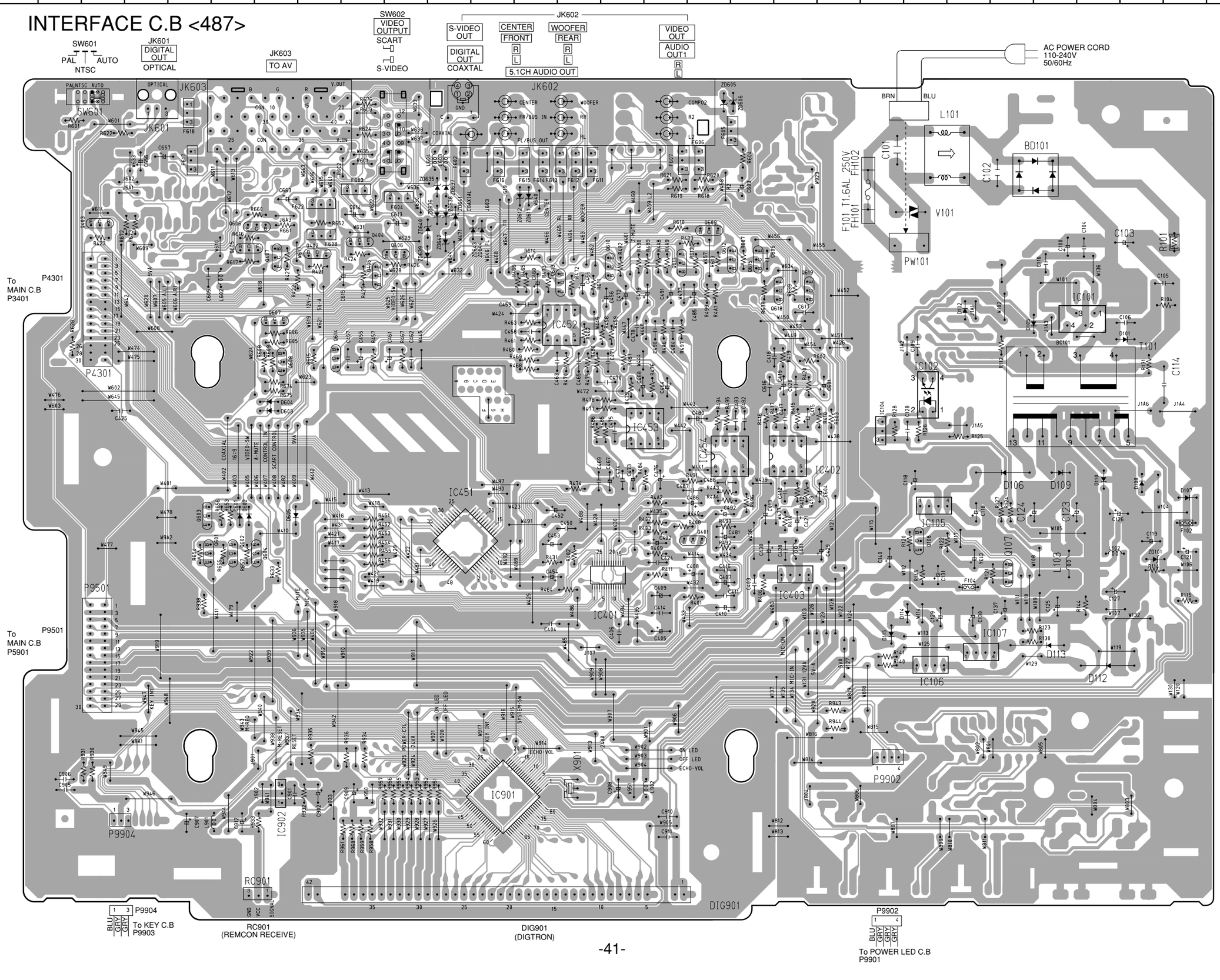
INTERFACE-4/4 (POWER SECTION)C.B



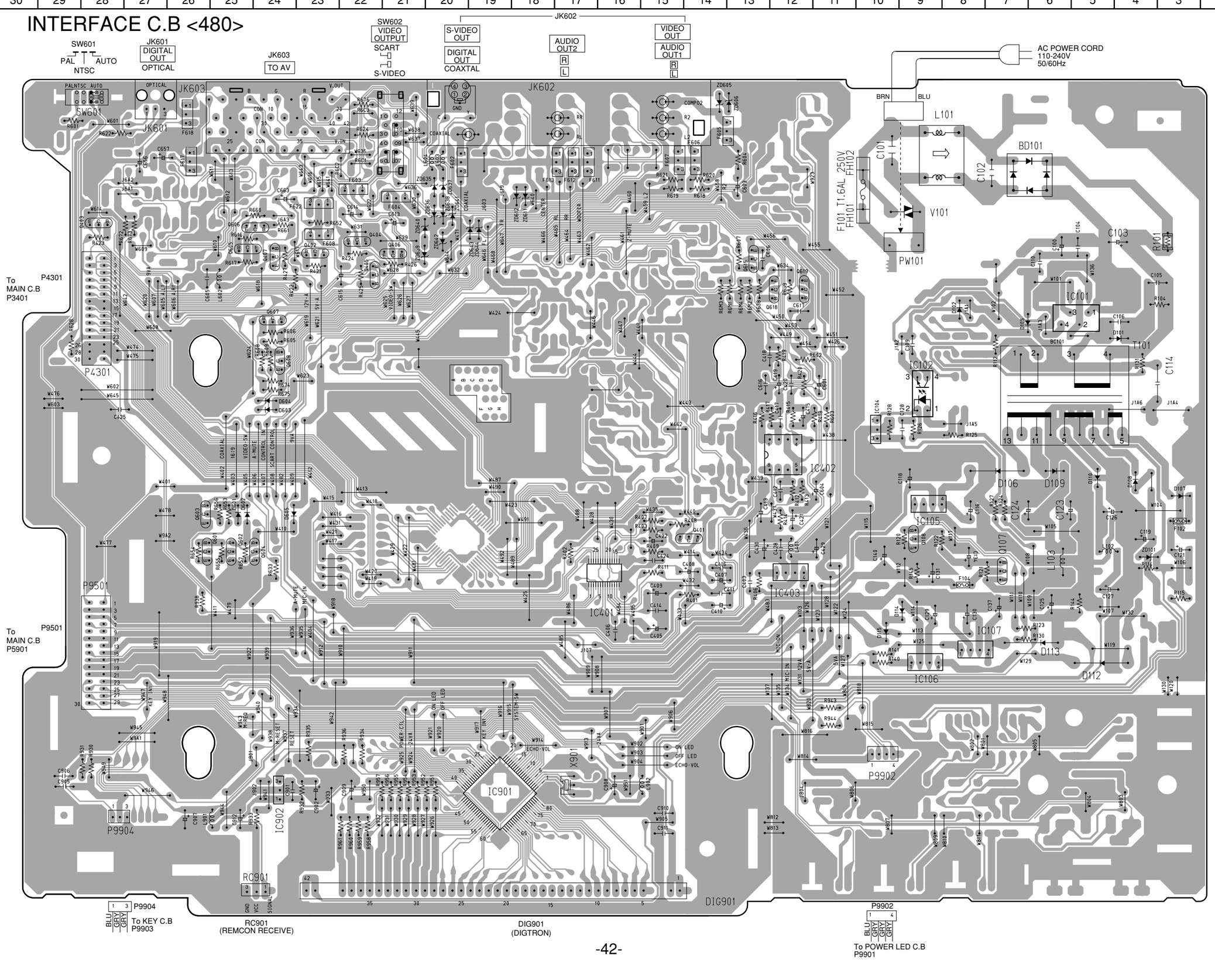
NOTES) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electricial shock.

NOTES : ⏚ Symbol denotes AC ground.
⏚ Symbol denotes DC chassis ground.

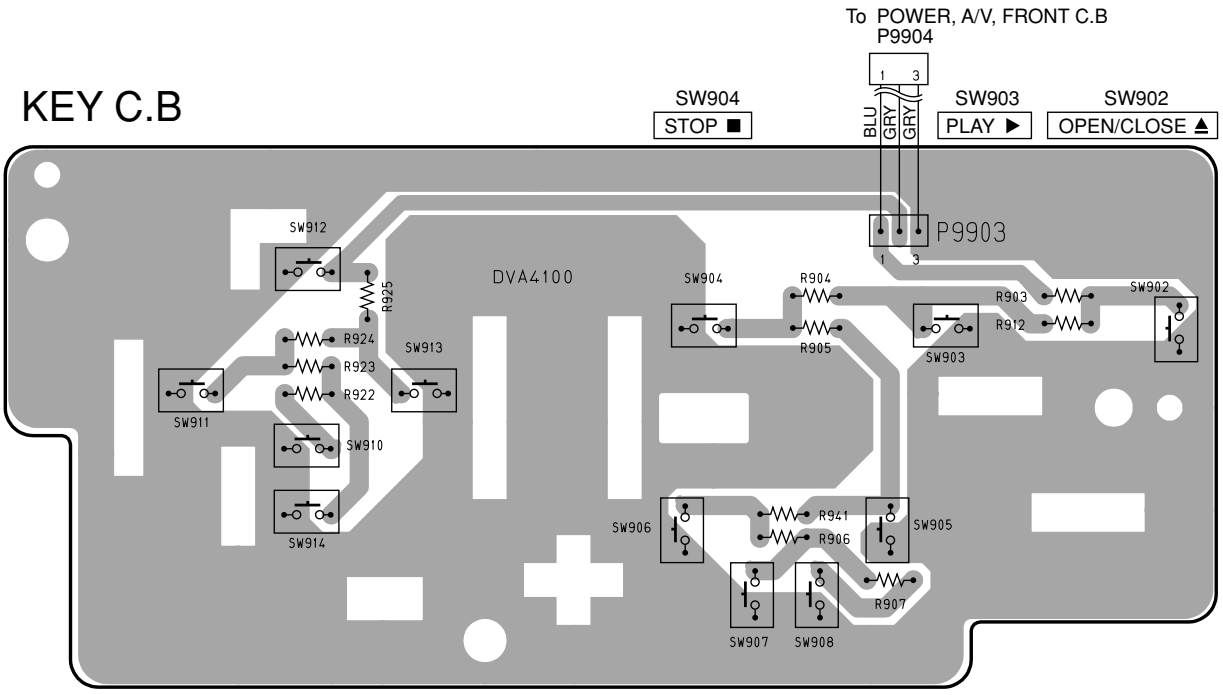
INTERFACE C.B <487>



INTERFACE C.B <480>



KEY C.B



SW912 ▲

SW911 ◀ | SW910 ENTER | SW913 ▶

SW914 ▼

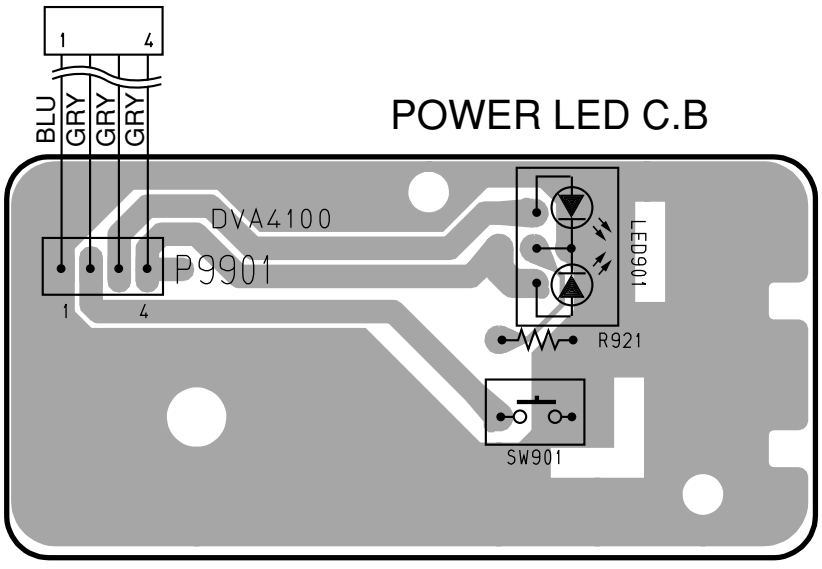
SW906 ▶▶\▶▶|

SW905 |◀◀/◀◀

SW907 MENU

SW908 PAUSE II

To INTERFACE C.B
P9902

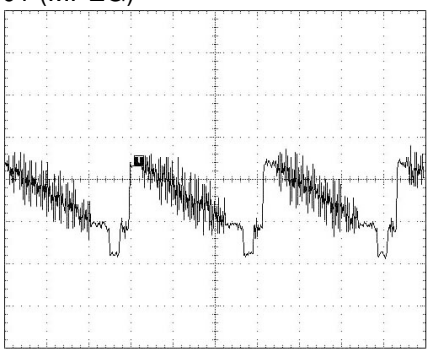


POWER LED C.B

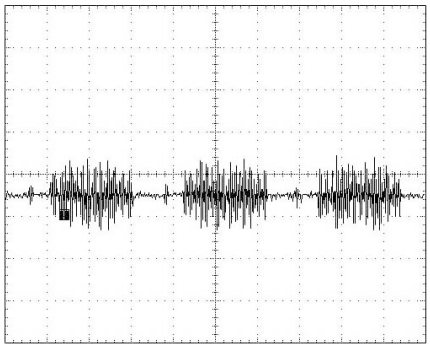
SW901,LED901
POWER
(⏻ STANDBY/ON)

WAVEFORMS - 1/2

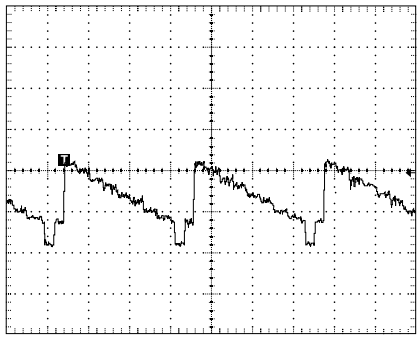
IC301 (MPEG)



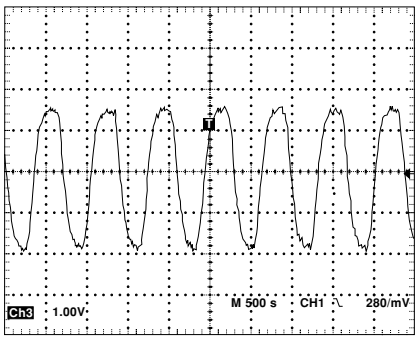
① IC301 Pin 133 Composite
500mV/20μs



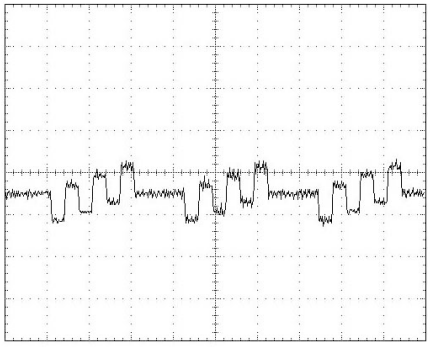
② IC301 Pin 151 Chrominance
(Super video out Mode)
500mV/20μs



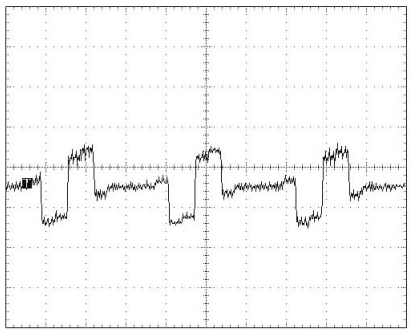
③ IC301 Pin 145 Luminance
(Super video out Mode)
500mV/20μs



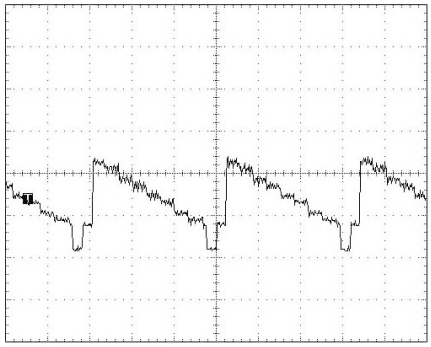
④ IC301 Pin 159 MPEG Clock (27MHz)
1.0V/500μs



⑤ IC301 Pin 145 Component Pb
500mV/20μs



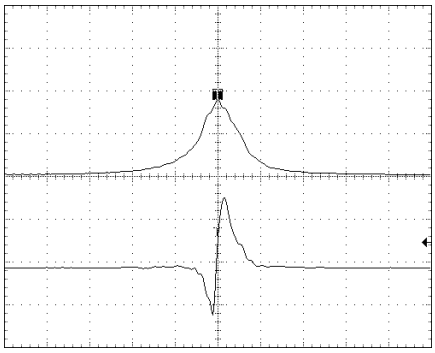
⑥ IC301 Pin 151 Component Pr
500mV/20μs



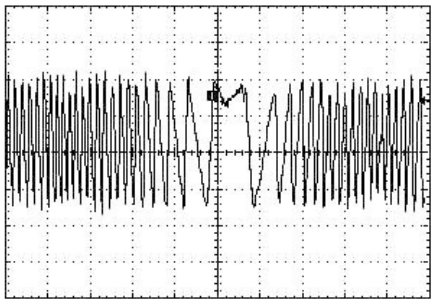
⑦ IC301 Pin 139 Component Y
500mV/20μs

WAVEFORMS - 2/2

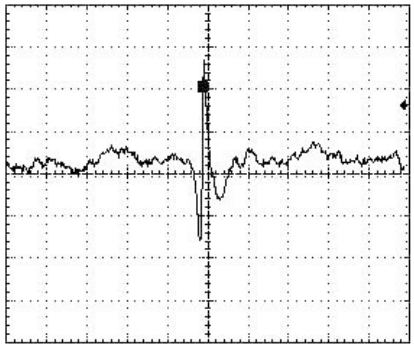
IC2A1, IC201 (DRIVE/RF, DVD DSP)



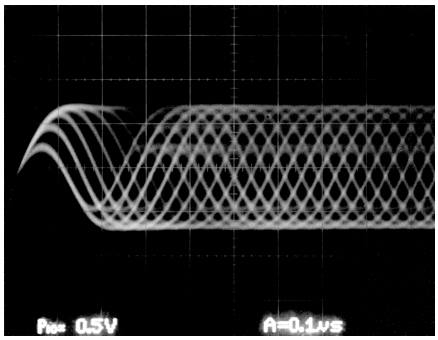
① IC2A1 Pin 42 Focus Error
IC2A1 Pin 36 Pi
500mV/5ms



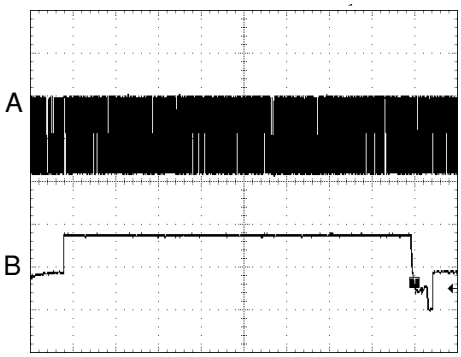
② IC2A1 Pin41 Tracing Error
500mV/2ms



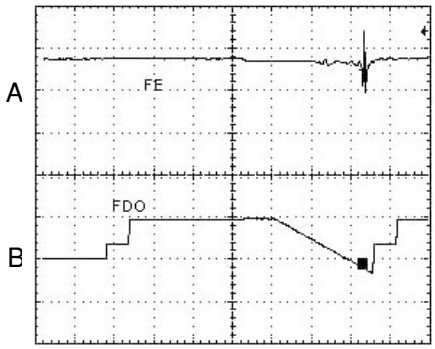
③ IC2A1 Pin41 VBR Tracking Error
500mV/300µs



④ IC2A1 Pin57 RF
0.5V/0.1µs



⑤ IC201 Pin88 SLED Driver (FMO)
IC201 Pin18 SLED FG
A: 2.0V/500ms, B: 500mV/500ms



⑥ IC2A1 Pin42 Focus Error(in Focus Search)
IC201 Pin83 Focus Drive (FDO)
A: 200mV/100ms, B: 500mV/100ms

VOLTAGE CHART - 1/7 (DSP SECTION)

IC201 GDC25D801D

MODE / PIN NO.	EE	PLAY
1	2.00	1.30
2	2.00	1.30
3	2.00	1.30
4	2.00	1.30
5	2.00	1.30
6	2.00	1.30
7	2.00	1.30
8	2.00	1.30
9	2.00	1.30
10	2.00	1.30
11	2.00	1.30
12	2.00	1.30
13	2.00	1.30
14	2.00	1.30
15	2.00	1.30
16	2.00	1.30
17	0.00	0.00
18	0.00	1.50
19	0.00	1.50
20	0.00	1.50
21	0.00	1.50
22	3.10	3.00
23	0.00	1.50
24	0.00	1.50
25	0.00	1.50
26	0.00	1.50
27	0.00	1.50
28	2.10	1.50
29	0.00	0.00
30	2.10	2.00
31	3.10	3.00
32	3.10	1.50
33	3.10	2.50
34	3.10	2.50
35	2.10	1.30
36	1.10	1.80
37	0.00	0.00
38	0.00	0.00
39	0.00	0.00
40	3.10	3.00
41	0.00	0.00
42	3.10	3.00
43	0.00	0.00
44	0.00	0.00
45	3.10	3.00
46	0.00	0.00
47	0.00	0.00
48	0.00	0.00
49	0.00	3.00
50	0.00	0.00
51	0.00	0.00
52	3.10	1.80
53	0.00	0.00
54	3.10	3.00
55	3.10	3.00
56	0.00	0.00
57	0.00	3.13
58	5.00	4.98
59	0.00	0.00
60	0.00	0.00

MODE / PIN NO.	EE	PLAY
61	5.00	4.98
62	0.00	0.00
63	2.10	2.10
64	0.00	0.00
65	3.10	3.00
66	0.00	0.00
67	3.10	3.12
68	0.00	0.00
69	0.00	0.20
70	0.00	0.00
71	3.10	3.10
72	0.00	0.20
73	0.00	0.00
74	3.10	3.10
75	0.00	0.00
76	0.00	0.00
77	0.00	0.00
78	0.00	2.30
79	3.10	3.10
80	5.00	5.00
81	0.00	0.00
82	5.00	5.00
83	2.10	2.00
84	2.10	2.10
85	3.10	3.10
86	1.40	1.40
87	0.00	0.00
88	2.10	2.00
89	2.10	2.00
90	0.00	0.00
91	1.50	1.55
92	3.10	3.12
93	1.60	1.55
94	1.10	1.11
95	2.00	2.00
96	1.55	1.55
97	0.00	0.00
98	1.55	1.55
99	1.56	2.15
100	3.10	3.10
101	1.55	1.58
102	1.55	1.55
103	1.62	1.64
104	1.55	1.55
105	1.50	1.50
106	0.00	0.00
107	0.00	0.00
108	0.00	0.00
109	0.00	0.00
110	0.00	0.00
111	0.00	0.00
112	0.00	0.00
113	3.40	4.70
114	5.00	5.00
115	1.50	1.50
116	1.50	1.53
117	3.10	3.10
118	0.00	0.00
119	0.00	0.00
120	3.50	4.20

MODE / PIN NO.	EE	PLAY
121	3.25	4.20
122	3.45	4.30
123	3.50	4.30
124	3.50	4.30
125	3.50	4.50
126	0.00	0.00
127	3.60	2.60
128	0.00	0.00
129	3.60	2.60
130	0.00	0.20
131	0.00	0.00
132	0.00	3.10
133	3.10	3.00
134	0.00	0.00
135	0.00	0.00
136	3.10	2.20
137	0.00	0.00
138	0.00	0.00
139	3.10	3.10
140	3.00	3.10
141	0.00	0.00
142	3.00	3.00
143	3.10	3.10
144	3.10	3.10
145	3.10	0.90
146	3.50	4.50
147	0.00	0.00
148	0.00	0.00
149	0.00	0.00
150	0.00	0.00
151	0.00	0.00
152	0.00	0.00
153	0.00	0.00
154	0.00	0.00
155	1.55	1.55
156	3.10	3.10
157	1.50	1.50
158	0.00	0.00
159	0.00	0.00
160	2.60	2.60
161	3.10	3.10
162	2.00	2.00
163	2.00	2.00
164	1.40	1.40
165	3.20	0.00
166	1.60	1.75
167	0.00	0.00
168	0.00	3.10
169	0.00	3.10
170	5.00	2.50
171	0.00	0.00
172	3.10	0.00
173	3.10	3.10
174	3.10	3.10
175	3.10	3.10
176	2.53	1.30
177	4.24	4.97
178	5.00	5.00
179	2.70	0.20
180	3.26	2.30

MODE / PIN NO.	EE	PLAY
181	3.10	2.50
182	2.40	2.50
183	3.66	2.80
184	0.00	0.00
185	0.00	0.00
186	3.10	3.00
187	3.10	3.10
188	2.20	2.40
189	1.75	1.90
190	2.20	1.80
191	1.80	1.80
192	2.20	2.20
193	1.25	1.30
194	1.00	1.10
195	5.00	5.00
196	0.00	2.25
197	0.00	1.60
198	0.00	1.50
199	0.00	1.50
200	0.00	1.50
201	0.00	1.50
202	0.00	1.50
203	0.00	1.50
204	0.00	1.50
205	3.10	2.60
206	1.50	1.50
207	3.10	3.10
208	3.10	3.10

IC203 NJM3414AM

MODE / PIN NO.	EE	PLAY
1	2.00	2.00
2	2.00	2.00
3	2.00	2.00
4	0.00	0.00
5	1.10	1.10
6	1.10	1.10
7	1.10	1.10
8	5.00	5.00

IC204 KIC7W53FU

MODE / PIN NO.	EE	PLAY
1	1.50	1.50
2	0.00	0.00
3	0.00	0.00
4	0.00	0.00
5	3.10	3.10
6	1.50	1.50
7	2.72	2.60
8	5.00	5.00

IC205 AS4LC256K16E

MODE / PIN NO.	EE	PLAY
1	3.16	3.18
2	2.01	2.07
3	2.01	2.07
4	2.02	2.07
5	2.02	2.07
6	3.16	3.18
7	2.02	2.08
8	2.02	2.07
9	2.02	2.07
10	2.02	2.07
11	0.10	0.00
12	0.26	0.00
13	2.08	2.09
14	3.16	3.17
15	0.00	0.00
16	0.00	0.00
17	0.00	0.00
18	0.00	0.00
19	0.00	0.00
20	3.15	3.18
21	0.00	0.00
22	0.00	0.00
23	0.00	0.00
24	0.00	0.00
25	0.00	0.00
26	0.00	0.00
27	1.06	1.07
28	3.14	3.17
29	3.14	3.16
30	0.00	0.00
31	2.01	2.08
32	2.02	2.08
33	2.02	2.08
34	2.02	2.08
35	0.00	0.00
36	2.02	2.08
37	2.02	2.08
38	2.02	2.08
39	2.02	2.08
40	0.00	0.00

IC206 TC7W04FU

MODE / PIN NO.	EE	PLAY
1	2.60	2.60
2	2.80	2.70
3	2.80	2.70
4	0.00	0.00
5	2.10	2.10
6	2.20	2.20
7	2.20	2.20
8	5.00	5.00

VOLTAGE CHART - 2/7 (SERVO SECTION)

IC2M1 FAN8727

MODE / PIN NO.	EE	PLAY
1	5.02	0.80
2	5.01	2.48
3	2.08	2.07
4	2.12	1.95
5	5.01	4.98
6	0.20	0.60
7	0.00	0.00
8	7.92	7.89
9	7.92	7.87
10	0.00	3.07
11	3.87	0.00
12	0.00	0.00
13	0.00	0.00
14	0.00	5.34
15	0.00	5.33
16	0.00	5.34
17	1.84	1.84
18	1.84	1.84
19	2.12	1.95
20	7.92	7.88
21	7.92	7.88
22	2.07	2.05
23	2.07	2.05
24	2.07	2.05
25	2.06	2.05
26	4.04	4.01
27	4.04	4.01
28	4.04	4.04
29	4.04	3.98
30	0.00	0.00
31	0.00	0.00
32	4.03	4.10
33	4.01	3.90
34	7.93	7.88
35	4.02	4.01
36	4.02	4.01
37	0.00	0.00
38	0.00	0.00
39	0.00	0.00
40	7.92	7.90
41	2.07	2.06
42	0.00	0.00
43	5.01	2.90
44	5.01	2.90
45	5.01	2.90
46	5.01	2.90
47	5.01	2.90
48	5.01	2.90

IC2A1 SSI33P3721

MODE / PIN NO.	EE	PLAY
1	3.44	3.38
2	3.12	3.40
3	2.50	2.50
4	2.51	2.53
5	3.50	3.44
6	3.46	3.44
7	3.47	3.45
8	3.47	3.44
9	3.48	3.44
10	3.43	3.41
11	2.52	2.70
12	2.52	2.70
13	2.52	2.60
14	2.52	2.60
15	2.56	2.70
16	2.48	2.50
17	2.98	3.30
18	0.00	0.00
19	4.50	4.58
20	0.00	0.00
21	0.00	0.20
22	4.96	3.85
23	0.00	0.00
24	4.95	4.92
25	5.00	0.00
26	2.52	2.50
27	1.55	1.55
28	4.97	4.93
29	0.00	0.40
30	2.55	2.63
31	2.51	2.56
32	4.90	4.65
33	0.00	0.20
34	0.00	2.60
35	0.00	2.50
36	1.56	2.15
37	3.58	0.00
38	2.62	3.20
39	0.00	2.60
40	2.50	2.60
41	1.55	1.60
42	1.46	1.65
43	1.58	1.64
44	2.52	2.50
45	4.92	4.97
46	4.99	5.00
47	0.00	0.00
48	0.00	0.00
49	3.59	0.00
50	0.00	0.00
51	2.35	0.00
52	2.37	2.30
53	3.51	3.47
54	3.51	3.46
55	0.61	0.00
56	1.67	2.42
57	2.95	2.88
58	4.98	4.93
59	3.48	3.40
60	3.48	3.40

MODE / PIN NO.	EE	PLAY
61	3.71	3.70
62	3.75	3.70
63	0.27	0.36
64	2.40	0.90

IC2A2 NJM3414AM

MODE / PIN NO.	EE	PLAY
1	1.57	1.54
2	1.57	1.54
3	1.57	1.54
4	0.00	0.00
5	1.63	1.64
6	1.64	1.64
7	2.62	2.42
8	4.97	4.93

TRANSISTOR

	Emitter		Base		Collector	
	EE	PLAY	EE	PLAY	EE	PLAY
Q2M1	0.00	0.00	4.98	4.98	0.00	0.00
Q2A1	4.67	4.69	4.97	4.01	0.96	2.20
Q2A2	4.97	4.93	4.96	4.93	0.00	0.50

VOLTAGE CHART -3/7 (MPEG SECTION-1/2)

IC301 ZIVA4.1B0

MODE / PIN NO.	EE	PLAY
1	3.13	3.10
2	0.15	0.20
3	3.13	3.10
4	1.07	4.00
5	5.00	5.00
6	0.00	0.00
7	3.14	3.10
8	3.00	3.00
9	2.60	2.60
10	2.60	2.60
11	2.60	2.60
12	2.60	2.60
13	2.50	2.50
14	0.00	0.00
15	2.60	2.60
16	2.60	2.60
17	2.60	2.60
18	2.60	2.60
19	0.00	0.00
20	3.13	3.10
21	3.10	2.90
22	3.10	2.90
23	3.10	2.90
24	3.10	2.80
25	3.10	2.80
26	3.10	2.80
27	3.10	2.70
28	3.10	2.70
29	3.10	3.10
30	2.65	2.60
31	0.00	0.00
32	3.13	3.10
33	0.00	0.00
34	0.00	0.00
35	0.00	0.00
36	2.50	2.50
37	0.00	0.00
38	0.00	0.00
39	0.00	0.00
40	3.13	3.10
41	0.00	0.00
42	0.00	0.00
43	3.13	3.10
44	0.00	0.00
45	3.13	3.10
46	3.10	3.10
47	3.10	3.10
48	3.10	3.10
49	3.10	3.10
50	3.10	3.10
51	3.10	3.10
52	3.10	3.10
53	0.00	1.20
54	0.00	1.20
55	3.12	3.10
56	0.00	0.00
57	1.00	1.20
58	1.00	1.20
59	0.70	1.30
60	1.00	1.20

MODE / PIN NO.	EE	PLAY
61	0.90	1.20
62	1.20	1.50
63	0.80	1.34
64	3.12	3.20
65	0.00	0.00
66	0.10	1.20
67	2.50	2.50
68	0.00	0.00
69	0.90	1.10
70	0.90	1.30
71	0.62	1.10
72	0.36	1.10
73	0.95	1.20
74	3.12	3.10
75	0.00	0.00
76	0.55	1.20
77	0.00	0.00
78	1.55	1.50
79	3.12	3.10
80	0.00	0.00
81	0.60	0.90
82	3.12	3.10
83	0.00	0.00
84	1.20	1.50
85	1.10	1.40
86	0.30	1.40
87	2.47	2.40
88	0.00	0.00
89	0.13	1.40
90	0.22	3.00
91	0.00	1.60
92	3.12	3.10
93	0.00	0.00
94	2.35	2.70
95	2.20	2.20
96	0.00	3.00
97	0.00	1.10
98	0.37	0.30
99	0.65	0.60
100	3.12	3.10
101	0.00	0.00
102	1.20	1.30
103	0.20	1.40
104	1.30	0.00
105	0.00	0.00
106	1.45	1.50
107	1.00	1.30
108	1.50	1.50
109	1.50	1.50
110	1.50	1.50
111	3.10	3.10
112	3.10	3.10
113	3.00	0.20
114	2.95	0.20
115	3.12	3.10
116	0.00	0.00
117	2.91	0.20
118	0.00	0.00
119	0.00	0.00
120	0.00	1.60

MODE / PIN NO.	EE	PLAY
121	0.00	1.60
122	1.56	1.60
123	3.12	3.10
124	0.00	0.00
125	1.56	1.60
126	1.56	1.60
127	1.56	1.60
128	2.47	2.30
129	0.00	0.00
130	0.00	0.00
131	0.00	0.00
132	0.00	0.00
133	0.78	1.20
134	3.10	3.10
135	3.10	3.10
136	0.00	0.00
137	0.00	0.00
138	0.00	0.00
139	0.54	1.00
140	3.10	3.10
141	3.10	3.10
142	0.00	0.00
143	0.00	0.00
144	0.00	0.00
145	0.67	1.40
146	3.10	3.10
147	3.10	3.10
148	0.00	0.00
149	0.00	0.00
150	0.00	0.00
151	1.00	1.00
152	3.10	3.10
153	3.10	3.10
154	0.00	0.00
155	1.30	1.30
156	3.10	3.10
157	0.00	0.00
158	3.16	3.11
159	2.23	2.21
160	3.13	3.12
161	0.00	1.50
162	0.00	1.50
163	0.00	1.50
164	0.00	1.50
165	0.00	1.50
166	0.00	0.00
167	3.12	3.12
168	0.00	1.50
169	0.00	1.50
170	0.00	1.50
171	0.00	2.62
172	0.00	1.50
173	1.54	1.50
174	0.00	0.00
175	3.12	3.11
176	0.00	0.00
177	3.12	3.12
178	0.00	0.00
179	3.12	3.10
180	3.12	3.10

MODE / PIN NO.	EE	PLAY
181	3.12	0.00
182	0.15	0.16
183	2.32	2.30
184	2.54	2.50
185	3.12	3.12
186	3.12	3.12
187	3.12	3.12
188	0.00	0.00
189	2.50	2.44
190	3.12	3.11
191	0.00	0.00
192	3.12	3.11
193	3.12	3.12
194	3.12	3.12
195	3.12	3.12
196	1.05	3.12
197	0.00	1.05
198	0.00	0.00
199	1.25	1.34
200	2.17	2.10
201	1.80	1.75
202	0.00	1.90
203	1.80	1.90
204	3.12	3.10
205	0.00	0.00
206	2.20	2.38
207	2.26	2.10
208	5.00	5.00

IC302 M12L16161A-7T

MODE / PIN NO.	EE	PLAY
1	3.15	3.10
2	0.65	1.20
3	0.70	1.20
4	0.00	0.00
5	0.92	1.10
6	0.77	1.10
7	3.13	3.15
8	0.71	0.95
9	0.90	1.30
10	0.00	0.00
11	0.86	0.90
12	1.10	1.50
13	3.16	3.10
14	0.00	0.00
15	2.97	2.90
16	1.54	1.60
17	2.35	2.70
18	3.13	3.10
19	1.23	1.00
20	0.64	0.30
21	0.64	0.70
22	1.23	1.20
23	1.42	1.40
24	1.32	1.30
25	3.13	3.10
26	0.00	0.00
27	1.47	1.40
28	1.40	1.40
29	1.16	1.40
30	0.60	1.40
31	0.60	0.90
32	0.00	0.00
33	0.00	0.00
34	3.13	3.14
35	1.54	1.50
36	0.00	0.00
37	0.30	0.00
38	3.13	3.14
39	0.53	1.20
40	0.56	1.20
41	0.00	0.00
42	0.00	1.20
43	0.59	1.10
44	3.14	3.14
45	0.92	1.40
46	0.84	1.50
47	0.00	0.00
48	0.87	1.40
49	0.77	1.10
50	0.00	0.00

VOLTAGE CHART - 4/7 (MPEG SECTION-2/2)

IC303 M12L16161A-7T

MODE / PIN NO.	EE	PLAY
1	3.15	3.10
2	0.65	1.20
3	0.70	1.20
4	0.00	0.00
5	0.92	1.10
6	0.77	1.10
7	3.13	3.15
8	0.71	0.95
9	0.90	1.30
10	0.00	0.00
11	0.86	0.90
12	1.10	1.50
13	3.16	3.10
14	0.00	0.00
15	2.97	2.90
16	1.54	1.60
17	2.35	2.70
18	3.13	3.10
19	1.23	1.00
20	0.64	0.30
21	0.64	0.70
22	1.23	1.20
23	1.42	1.40
24	1.32	1.30
25	3.13	3.10
26	0.00	0.00
27	1.47	1.40
28	1.40	1.40
29	1.16	1.40
30	0.60	1.40
31	0.60	0.90
32	0.00	0.00
33	0.00	0.00
34	3.13	3.14
35	1.54	1.50
36	0.00	0.00
37	0.30	0.00
38	3.13	3.14
39	0.53	1.20
40	0.56	1.20
41	0.00	0.00
42	0.00	1.20
43	0.59	1.10
44	3.14	3.14
45	0.92	1.40
46	0.84	1.50
47	0.00	0.00
48	0.87	1.40
49	0.77	1.10
50	0.00	0.00

IC304 TC7W04FU

MODE / PIN NO.	EE	PLAY
1	2.67	2.76
2	2.76	2.76
3	2.76	2.76
4	0.00	0.00
5	2.22	2.21
6	2.23	2.22
7	2.23	2.22
8	5.00	4.99

IC305 TC7W04FU

MODE / PIN NO.	EE	PLAY
1	1.56	1.56
2	2.48	2.46
3	2.56	2.55
4	0.00	0.00
5	2.47	2.46
6	2.56	2.55
7	2.56	2.55
8	5.00	4.99

Q303

MODE / PIN NO.	EE	PLAY
1	2.49	2.47
2	2.47	2.46
3	0.00	0.00
4	2.48	2.47
5	2.47	2.46
6	5.03	5.01

VOLTAGE CHART -5/7 (SYSTEM SECTION-1/2)

IC501 HD6417034AF112

MODE / PIN NO.	EE	PLAY
1	0.00	0.00
2	3.10	3.13
3	0.00	0.00
4	2.20	1.06
5	2.20	2.22
6	1.70	1.74
7	2.20	0.97
8	1.80	1.82
9	2.20	0.95
10	1.20	0.95
11	1.00	0.94
12	0.00	0.00
13	0.00	2.06
14	0.00	1.27
15	5.00	1.94
16	0.90	1.94
17	0.70	0.92
18	0.00	1.28
19	0.00	2.06
20	0.00	2.52
21	0.00	2.13
22	0.00	0.00
23	1.20	0.99
24	2.60	2.29
25	2.70	2.52
26	1.50	1.04
27	1.80	2.98
28	2.90	2.33
29	1.80	2.80
30	1.90	1.25
31	0.00	0.00
32	0.90	1.78
33	0.80	2.28
34	2.10	3.93
35	2.20	2.72
36	0.70	0.88
37	0.70	3.77
38	0.70	0.92
39	0.70	0.97
40	0.00	0.00
41	0.70	0.50
42	2.20	1.35
43	5.00	4.97
44	0.70	0.32
45	0.70	0.95
46	0.50	0.25
47	0.50	0.25
48	3.40	0.53
49	4.90	4.84
50	2.60	4.94
51	4.90	4.83
52	0.00	0.00
53	0.00	2.90
54	4.90	4.75
55	5.00	4.57
56	4.90	4.96
57	5.00	4.94
58	0.00	0.00
59	1.60	1.17
60	0.00	0.00

MODE / PIN NO.	EE	PLAY
61	0.00	0.00
62	5.00	4.97
63	0.00	0.00
64	0.00	0.16
65	5.00	4.99
66	0.20	3.55
67	5.00	4.96
68	0.00	0.00
69	3.20	0.00
70	5.00	4.97
71	2.40	2.37
72	0.00	0.00
73	2.40	2.24
74	2.20	2.11
75	5.00	4.97
76	5.00	4.96
77	5.00	4.97
78	5.00	4.97
79	4.80	4.81
80	4.90	4.98
81	0.00	0.00
82	0.00	0.00
83	5.00	4.98
84	5.00	4.97
85	4.90	4.98
86	4.50	4.98
87	1.60	2.20
88	4.90	0.00
89	0.00	0.00
90	0.00	3.11
91	0.00	0.00
92	0.00	4.07
93	0.00	3.11
94	0.00	0.00
95	0.00	4.00
96	0.00	0.00
97	4.95	4.97
98	4.95	4.97
99	4.95	3.58
100	2.07	2.10
101	4.86	0.00
102	4.24	0.00
103	4.75	4.97
104	2.96	4.93
105	4.95	2.53
106	0.00	0.00
107	5.03	5.03
108	4.99	4.97
109	0.00	3.11
110	0.00	0.00
111	5.00	4.97
112	0.00	4.97

IC502 AT49F8192A

MODE / PIN NO.	EE	PLAY
1	0.50	0.90
2	0.90	1.00
3	1.00	1.20
4	3.80	2.80
5	1.00	1.50
6	0.60	2.90
7	4.00	3.70
8	2.30	2.92
9	0.20	0.20
10	0.20	5.00
11	5.00	5.00
12	5.00	4.47
13	3.70	4.40
14	0.20	0.10
15	0.20	0.20
16	0.43	0.60
17	0.30	0.40
18	1.80	2.20
19	1.20	2.09
20	2.80	2.70
21	2.40	2.51
22	3.00	2.80
23	2.60	2.50
24	2.50	2.50
25	2.30	2.30
26	0.55	0.70
27	0.00	0.00
28	1.20	1.30
29	2.26	2.12
30	2.08	2.12
31	2.20	2.22
32	1.66	1.96
33	1.75	1.88
34	1.13	1.34
35	2.19	1.89
36	1.68	1.70
37	5.00	5.00
38	1.82	1.76
39	1.29	1.13
40	2.17	2.10
41	2.05	2.26
42	1.25	1.34
43	2.49	2.47
44	1.05	1.20
45	2.15	1.80
46	0.00	0.00
47	5.00	5.00
48	1.40	2.17

IC503 M11B416256A

MODE / PIN NO.	EE	PLAY
1	4.98	4.96
2	2.10	2.25
3	2.18	1.70
4	1.73	0.00
5	2.19	2.26
6	4.98	4.96
7	1.80	0.00
8	2.19	0.60
9	1.24	1.52
10	1.04	0.00
11	0.00	0.00
12	0.18	0.00
13	4.96	4.93
14	4.87	4.88
15	0.00	0.00
16	2.30	2.26
17	2.53	1.80
18	2.57	0.35
19	3.07	0.35
20	4.97	4.97
21	0.00	0.00
22	2.33	2.10
23	2.80	0.00
24	1.12	0.00
25	1.62	3.85
26	2.26	0.72
27	1.17	2.18
28	4.85	4.88
29	4.86	4.88
30	3.28	2.17
31	2.03	0.78
32	1.63	1.10
33	1.12	0.78
34	1.63	0.78
35	0.00	0.00
36	1.33	0.00
37	2.03	0.00
38	2.53	0.00
39	2.17	0.00
40	0.00	0.00

IC504 KS24C021CS

MODE / PIN NO.	EE	PLAY
1	0.00	0.00
2	0.00	0.00
3	0.00	0.00
4	0.00	0.00
5	4.99	4.97
6	4.98	4.97
7	0.00	0.00
8	4.99	0.00

IC505 MC74VHC374

MODE / PIN NO.	EE	PLAY
1	0.00	0.00
2	5.03	5.02
3	2.26	2.13
4	2.20	2.40
5	5.03	5.01
6	0.00	0.00
7	1.75	1.88
8	2.19	1.90
9	5.02	5.01
10	0.00	0.00
11	5.00	5.00
12	5.00	5.01
13	1.80	1.76
14	2.20	2.10
15	5.00	5.00
16	0.00	0.00
17	1.30	1.34
18	1.00	1.10
19	0.00	0.00
20	5.00	5.00

VOLTAGE CHART - 6/7 (SYSTEM-2/2, FRONT, JACK SECTION)

IC506 HS602002

MODE / PIN NO.	EE	PLAY
1	0.00	0.00
2	5.00	4.98
3	5.00	0.00
4	0.00	0.30
5	0.00	0.00
6	0.00	0.00
7	4.96	4.94
8	5.00	4.97
9	0.13	0.00
10	4.99	4.97
11	0.13	0.00
12	5.00	0.00
13	0.00	0.00
14	4.99	4.98
15	4.99	4.98
16	3.14	0.00
17	0.00	0.00
18	3.12	3.15
19	4.97	4.98
20	4.99	4.70
21	4.97	4.95
22	4.98	4.97
23	4.97	4.95
24	5.00	4.98
25	0.00	0.00
26	5.00	4.97
27	0.00	0.00
28	0.24	0.24
29	0.70	0.24
30	0.70	0.44
31	4.06	4.03
32	0.00	4.97
33	4.81	4.81
34	4.99	4.98
35	4.99	4.98
36	4.99	4.98
37	0.00	0.00
38	0.00	4.98
39	2.26	1.25
40	2.18	2.21
41	1.73	1.73
42	2.18	2.16
43	1.81	1.81
44	4.95	4.94

IC901 μPD780232GC

MODE / PIN NO.	EE	PLAY
1	5.00	5.01
2	0.00	0.00
3	2.77	2.52
4	2.86	2.86
5	0.70	0.00
6	5.00	5.00
7	4.98	4.96
8	4.93	4.92
9	4.94	4.95
10	4.97	2.89
11	4.97	4.97
12	4.97	3.00
13	4.97	4.96
14	4.97	3.30
15	4.86	4.90
16	0.00	0.00
17	4.80	4.81
18	0.00	0.00
19	4.78	4.76
20	0.00	0.00
21	4.96	4.98
22	4.97	4.98
23	0.00	0.00
24	4.99	5.00
25	5.00	5.00
26	1.18	1.14
27	4.11	4.12
28	4.96	4.96
29	4.96	4.97
30	4.97	4.96
31	4.96	4.97
32	4.97	4.97
33	4.96	4.96
34	4.96	4.97
35	4.96	4.97
36	4.97	4.97
37	4.97	4.96
38	4.96	4.96
39	4.77	4.97
40	4.80	4.80
41	-21.60	-22.00
42	-22.90	-21.60
43	-22.30	-21.30
44	-17.80	-16.80
45	-12.40	-12.30
46	-9.30	-18.00
47	-18.90	-16.70
48	-15.60	-15.00
49	-17.00	-17.50
50	-16.90	-16.00
51	-18.60	-18.10
52	-18.00	-18.30
53	-18.40	-20.00
54	-20.20	-24.80
55	-18.60	-23.70
56	-16.90	-23.60
57	-18.50	-23.50
58	-18.50	-24.40
59	5.00	5.02
60	-25.00	-27.00

MODE / PIN NO.	EE	PLAY
61	-20.40	-20.00
62	-16.90	-16.90
63	-18.00	-18.40
64	-17.80	18.30
65	-17.60	-18.70
66	-17.70	-18.00
67	-17.70	-18.20
68	-17.50	-18.70
69	-17.50	-18.70
70	-17.70	-18.80
71	-17.30	-19.40
72	-17.30	-19.50
73	-17.20	-21.80
74	-17.20	-21.80
75	-17.20	-21.90
76	-17.10	-21.80
77	-17.50	-21.80
78	-17.30	-21.80
79	-17.30	-21.80
80	-16.80	-21.80

IC902 KIA7042P

MODE / PIN NO.	EE	PLAY
1	5.09	5.00
2	0.00	0.00
3	5.07	5.00

TRANSISTOR

	Emitter		Base		Collector	
	EE	PLAY	EE	PLAY	EE	PLAY
Q601	12.74	12.67	11.97	11.89	12.73	12.65
Q602	0.00	0.00	5.03	5.06	0.00	0.00
Q603	0.00	0.00	0.00	0.00	12.72	12.65
Q604	0.00	0.00	5.04	5.03	0.00	0.00
Q605	1.99	1.53	1.31	0.89	0.00	0.00
Q606	1.99	1.70	1.31	1.15	0.00	0.00
Q607	0.00	0.00	0.78	0.00	0.00	0.00
Q608	0.00	0.00	0.77	-0.70	0.00	0.00
Q609	0.00	0.00	0.76	-0.60	0.00	0.00
Q610	0.00	0.00	0.76	0.00	0.00	0.00
Q611	0.00	0.00	0.75	-0.70	0.00	0.00
Q612	0.00	0.00	0.76	-0.90	0.00	0.00
Q613	0.00	0.00	0.76	-0.50	0.00	0.00
Q614	0.00	0.00	0.76	-0.50	0.00	0.00
Q615	5.09	5.09	4.29	4.92	4.96	-1.00

VOLTAGE CHART - 7/7 (AUDIO, POWER SECTION)

IC401 PCM1716E

MODE / PIN NO.	EE	PLAY
1	1.60	1.59
2	0.00	1.61
3	1.59	1.59
4	2.37	2.37
5	1.70	1.69
6	2.80	2.83
7	0.00	0.00
8	4.94	4.91
9	5.06	5.05
10	0.00	0.00
11	2.53	2.52
12	0.00	0.00
13	5.07	5.05
14	0.00	0.00
15	4.91	4.91
16	2.53	2.52
17	0.00	0.00
18	2.53	2.52
19	0.00	0.00
20	5.06	5.09
21	0.00	5.10
22	5.01	5.02
23	0.00	0.00
24	5.04	5.06
25	5.03	5.06
26	0.00	0.00
27	5.00	5.01
28	5.01	5.02

IC402 NJM4580D

MODE / PIN NO.	EE	PLAY
1	5.36	5.37
2	5.37	5.35
3	5.37	5.35
4	0.00	0.00
5	5.36	5.37
6	5.37	5.37
7	5.37	5.35
8	11.80	11.78

IC403 KA78R12

MODE / PIN NO.	EE	PLAY
1	5.03	5.03
2	0.00	0.00
3	11.84	11.85
4	12.78	12.69

IC451 PCM1601Y

MODE / PIN NO.	EE	PLAY
1	0.00	0.00
2	0.00	0.00
3	0.00	0.00
4	0.00	0.00
5	0.00	0.00
6	0.00	0.00
7	0.00	0.00
8	4.75	4.74
9	2.40	2.40
10	2.40	2.40
11	2.40	2.40
12	2.40	2.40
13	2.40	2.40
14	2.40	2.40
15	2.40	2.40
16	2.40	2.40
17	0.00	0.00
18	4.75	4.74
19	0.00	0.00
20	4.75	4.74
21	0.00	0.00
22	4.75	4.74
23	0.00	0.00
24	4.75	4.74
25	0.00	0.00
26	4.75	4.74
27	0.00	0.00
28	4.75	4.74
29	0.00	0.00
30	4.74	4.74
31	0.00	0.00
32	0.00	0.00
33	1.45	0.10
34	0.00	0.00
35	5.10	5.10
36	3.10	3.10
37	3.10	3.10
38	1.57	1.56
39	1.56	1.55
40	1.59	1.58
41	1.59	1.58
42	0.00	0.00
43	3.10	3.06
44	0.00	0.00
45	0.00	1.20
46	0.00	1.20
47	0.00	1.20
48	3.10	0.00

IC452 NJM4580D

MODE / PIN NO.	EE	PLAY
1	5.36	5.38
2	5.37	5.37
3	5.37	5.36
4	0.00	0.00
5	5.36	5.37
6	5.37	5.38
7	5.37	5.36
8	11.80	11.79

IC453 NJM4580D

MODE / PIN NO.	EE	PLAY
1	5.36	5.38
2	5.37	5.37
3	5.37	5.36
4	0.00	0.00
5	5.36	5.37
6	5.37	5.38
7	5.37	5.36
8	11.80	11.79

IC454 NJM4580D

MODE / PIN NO.	EE	PLAY
1	5.36	5.38
2	5.37	5.37
3	5.37	5.36
4	0.00	0.00
5	5.36	5.37
6	5.37	5.38
7	5.37	5.36
8	11.80	11.79

IC101 KA5M0365R

MODE / PIN NO.	EE	PLAY
1		
2		
3		
4		

IC102 LTV-817B

MODE / PIN NO.	EE	PLAY
1	3.87	3.78
2	4.89	4.84
3	18.6	18.4
4	21.9	23.5

IC104 KA431AZ

MODE / PIN NO.	EE	PLAY
1	3.85	3.79
2	0.00	0.00
3	2.43	2.45

IC105 KA78R08

MODE / PIN NO.	EE	PLAY
1	4.88	4.93
2	0.00	0.00
3	7.99	7.97
4	10.24	9.23

IC106 KA78R33TU

MODE / PIN NO.	EE	PLAY
1	4.89	4.89
2	0.00	0.00
3	3.27	3.26
4	4.41	4.44

IC107 KA78R33TU

MODE / PIN NO.	EE	PLAY
1	4.89	4.87
2	0.00	0.00
3	3.28	3.27
4	4.43	4.44

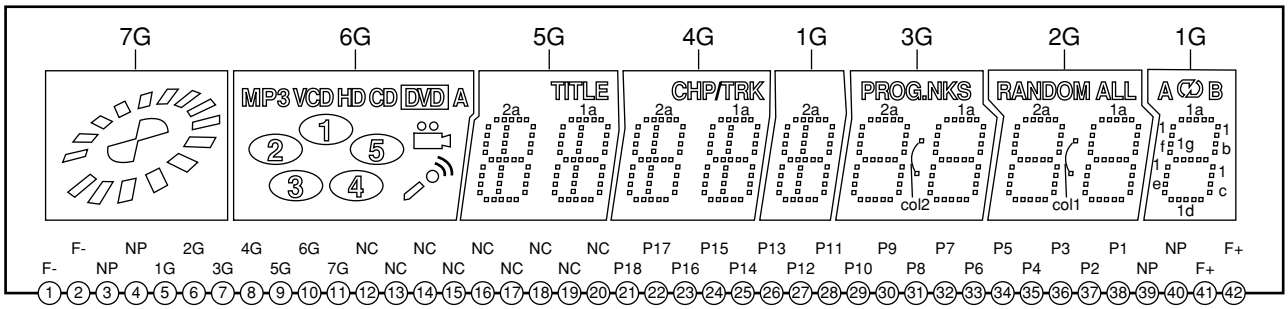
TRANSISTOR

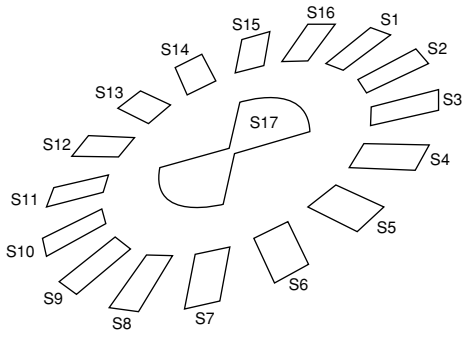
	Emitter		Base		Collector	
	EE	PLAY	EE	PLAY	EE	PLAY
Q401	5.04	5.33	4.32	5.03	4.08	0.00
Q402	5.04	5.03	5.03	4.99	0.00	0.00
Q403	0.00	0.00	0.00	0.00	5.03	5.02
Q404	0.00	0.00	-0.30	-0.30	0.98	0.98
Q405	0.00	0.00	0.00	0.00	1.05	0.72
Q406	0.00	0.00	0.00	0.00	1.30	0.89
Q407	0.00	0.00	-0.49	-0.35	1.31	0.88

TRANSISTOR

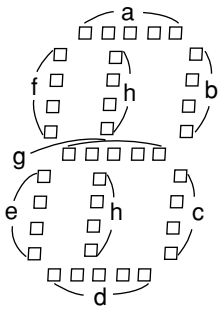
	Emitter		Base		Collector	
	EE	PLAY	EE	PLAY	EE	PLAY
Q107	5.15	5.14	4.44	4.43	5.19	5.19
Q108	0.00	0.00	0.75	0.74	0.00	0.00

LCD DISPLAY - 1/1





(7G)



(1G,4G,5G)

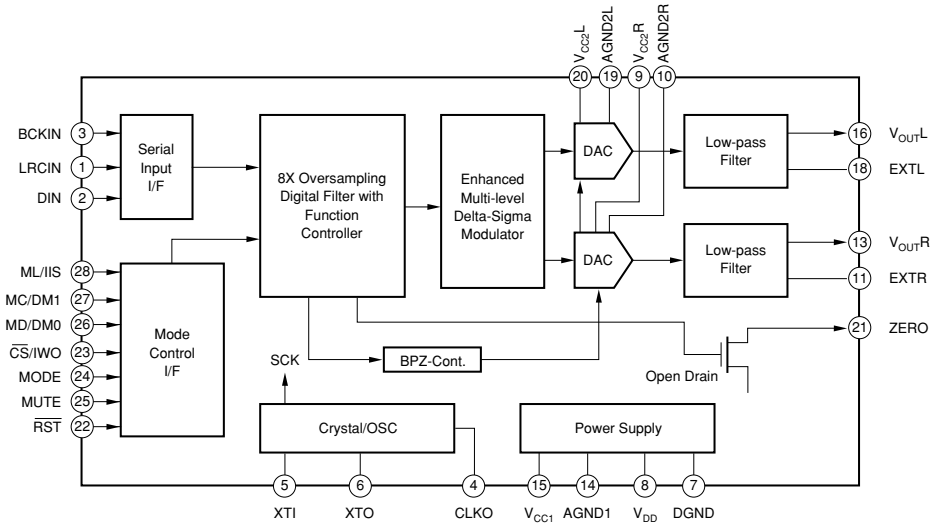
NOTE: 1) F+,F- ..... Filament
2) NP ..... No pin
3) NC ..... No connection
4) DL ..... Datum Line
5) 1G-7G ..... Grid

ANODE CONNECTION

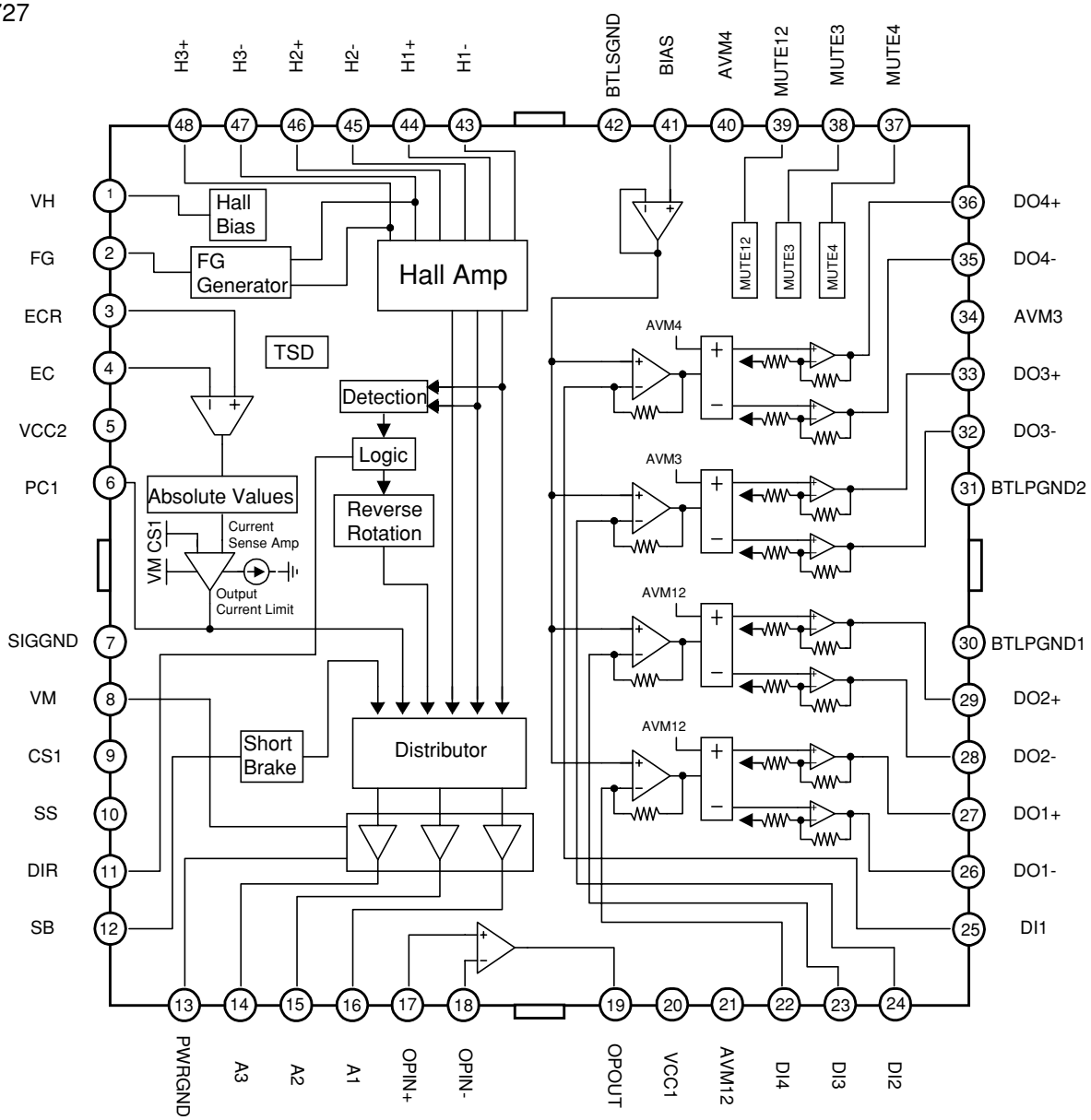
	7G	6G	5G	4G	3G	2G	1G
P1	S1	DVD	1a	1a	1a	1a	1a
P2	S2	VCD	1b	1b	1b	1b	1b
P3	S3	HD	1f	1f	1f	1f	1f
P4	S4	CD	1g	1g	1g	1g	1g
P5	S5	MP3	1c	1c	1c	1c	1c
P6	S6	A	1e	1e	1e	1e	1e
P7	S7		1d	1d	1d	1d	1d
P8	S8		1h	1h	col2	col1	B
P9	S9	1	2a	2a	2a	2a	2a
P10	S10	2	2b	2b	2b	2b	2b
P11	S11	3	2f	2f	2f	2f	2f
P12	S12	4	2g	2g	2g	2g	2g
P13	S13	5	2c	2c	2c	2c	2c
P14	S14	–	2e	2e	2e	2e	2e
P15	S15	–	2d	2d	2d	2d	2d
P16	S16	–	2h	2h	–	ALL	2h
P17	S17	–	TITLE	CHP/TRK	NKS	RANDOM	
P18	–	–	–	–	PROG.	–	A

IC BLOCK DIAGRAM -1/4

IC, PCM1716E

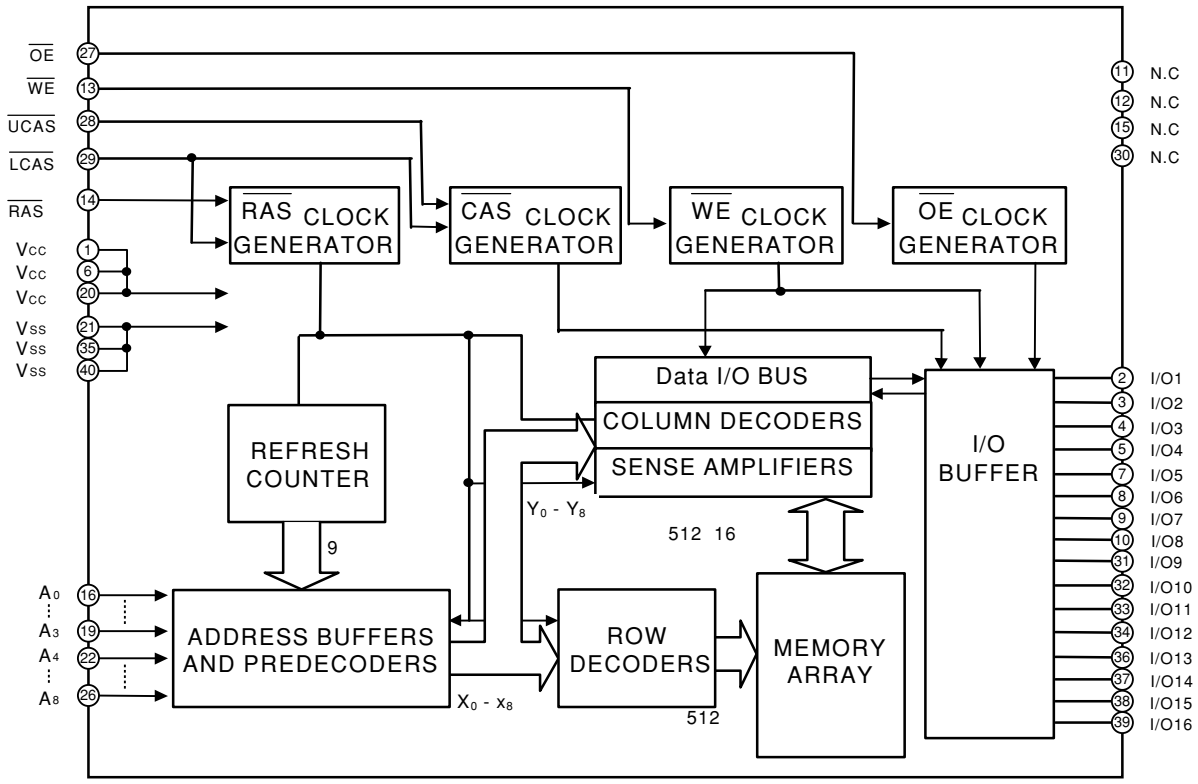


IC, FAN8727

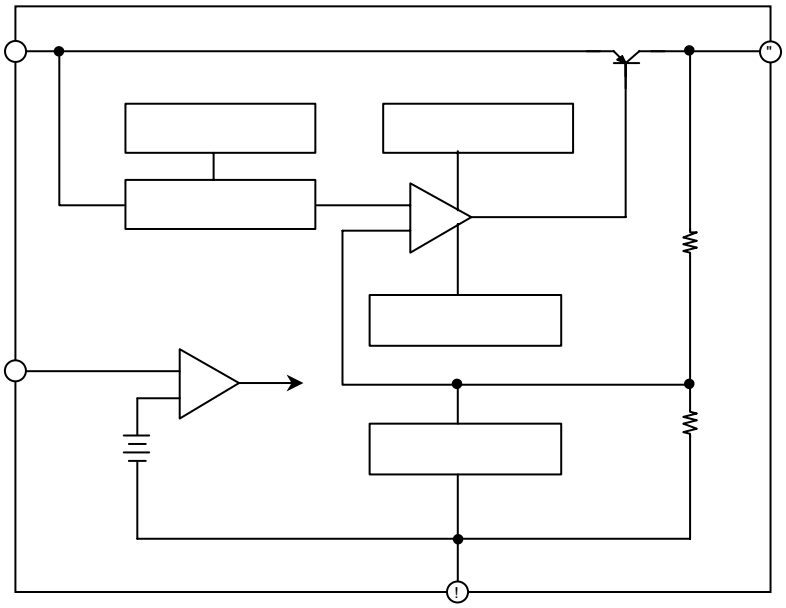


IC BLOCK DIAGRAM -2/4

IC, AS4LC256K16EO-35

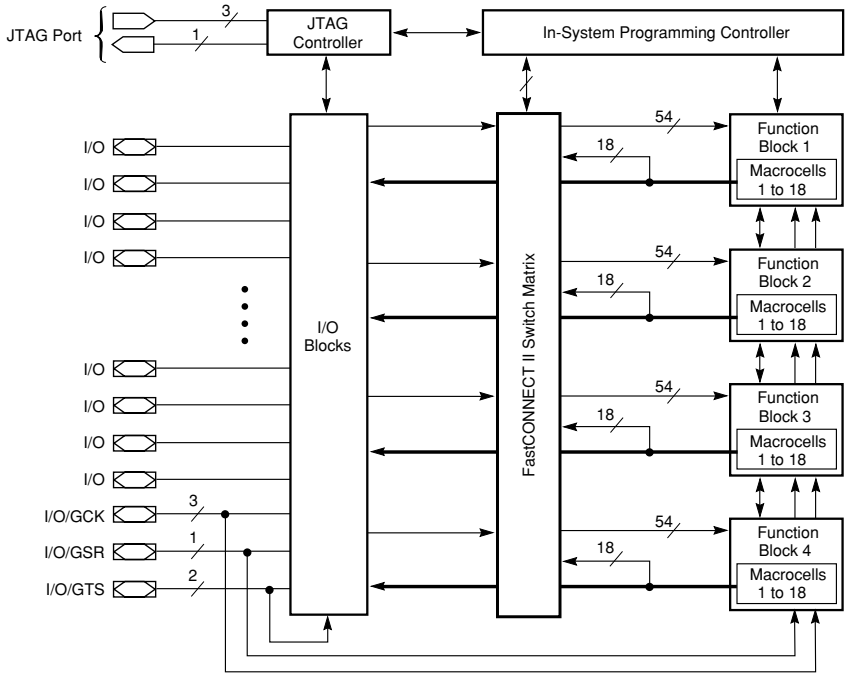


IC, KA78R12

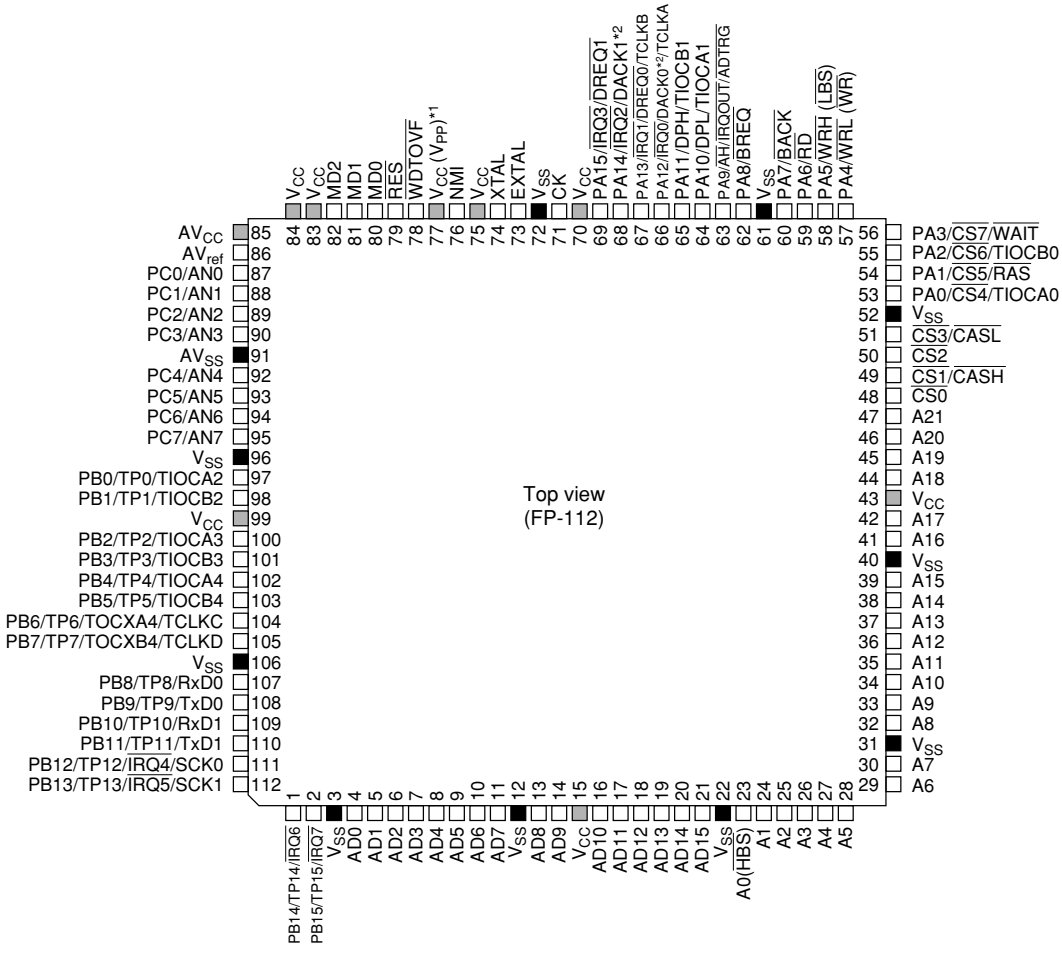


IC BLOCK DIAGRAM -3/4

IC, XC9536-15VQ44C

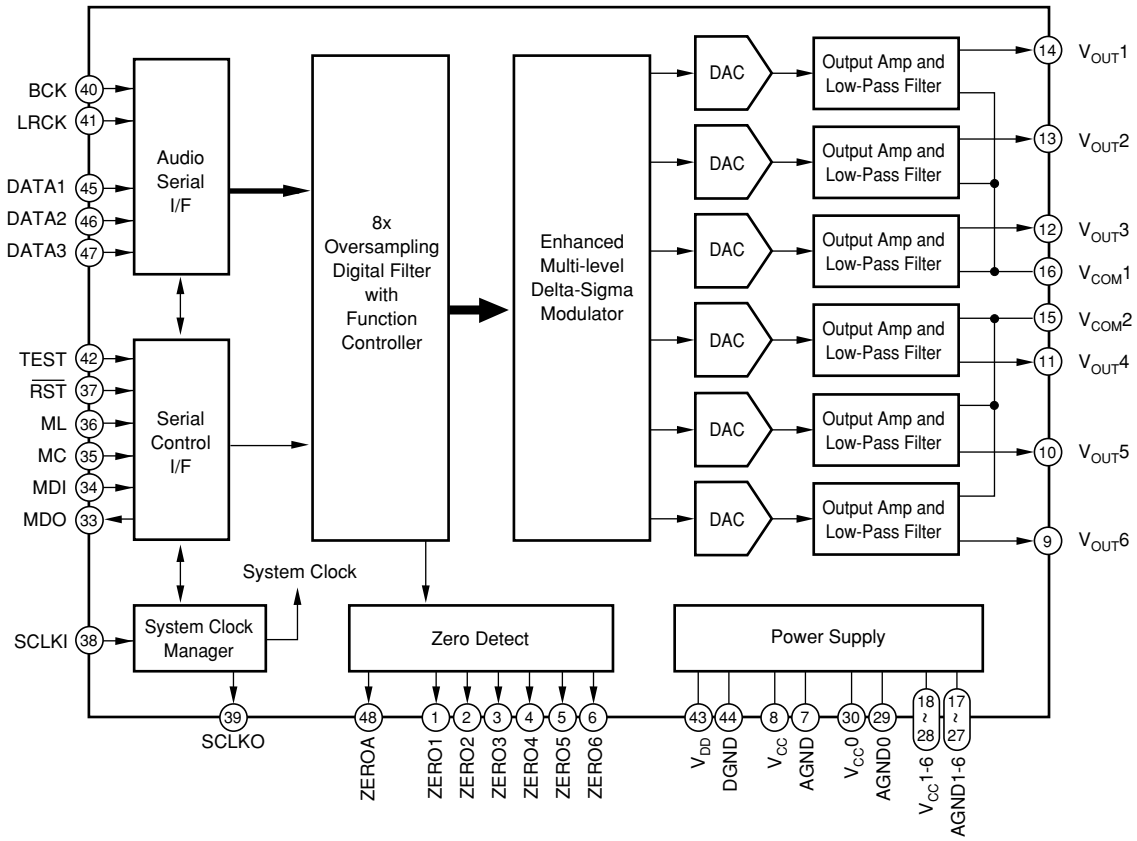


IC, HD6417034AF112



IC BLOCK DIAGRAM -4/4

IC, PCM1601Y



Pin No.	Pin Name	I/O	Description
1	DVDRFP	I	RF SIGNAL INPUTS: Differential RF signal attenuator input pins.
2	DVDRFN	I	
3	PD1	I	CD PHOTO DETECTOR INTERFACE INPUTS: Inputs from the CD photo detector outputs.
4	PD2	I	
5	A2	I	PHOTO DETECTOR NTERFACE INPUTS: AC coupled inputs for the DPD from the main beam Photo detector matrix outputs.
6	B2	I	
7	C2	I	
8	D2	I	
9	CP	–	DIFFERENTIAL PHASE TRACKING LPF PIN: The external capacitance is connected between CN.
10	CN	–	DIFFERENTIAL PHASE TRACKING LPF PIN: The external capacitance is connected between CP.
11	D	I	PHOTO DETECTOR INTERFACE INPUTS: Inputs from the main beam Photo detector matrix outputs.
12	C	I	
13	B	I	
14	A	I	
15	F	I	CD TRACKING ERROR INPUTS: Inverted(F) and non-inverted(E) inputs of the OP-Amp for the CD tracking error.
16	E	I	
17	CDTE	–	CD TRACKING: E-F Opamp output for feed back.
18	CEIN	I	CD CENTER ERROR INPUT: Inverted input of the OP-Amp for the CD center error.
19	CE1	I	CENTER ERROR OPAMP OUTPUT: CEIN Opamp output for feedback.
20	VNB	–	Ground pin for the servo block.
21	DVDRD	I	APC INPUT: DVD APC input pin from the monitor photo diode.
22	DVDLD	O	APC OUTPUT: DVD APC output pin to control the laser power.
23	CDPD	I	APC INPUT: CD APC input pin from the monitor photo diode.
24	CDLD	O	APC OUTPUT: CD APC output pin to control the laser power.
25	$\overline{\text{LDON}}$	I	APC OUTPUT ON/OFF: APC output control pin. A low level activates LD output.(open high)
26	VC	–	REFERENCE VOLTAGE OUTPUT: This pin provides the internal DC bias reference voltage (+2.5 V fix). Output impedance is less than 50 ohm.
27	VCI	–	REFERENCE VOLTAGE INPUT : DC bias voltage input for servo output reference.
28	VPB	–	Power supply pin for the servo block
29	MIRR	O	MIRROR DETECT OUTPUT: Mirror detect comparator output. Pseudo CMOS output.
30	MP	–	MIRR SIGNAL PEAK HOLD PIN: The external capacitance is connected to VPB.
31	MB	–	MIRR SIGNAL BOTTOM HOLD PIN: The external capacitance is connected to VPB.
32	$\overline{\text{FDCHG}}$	I	LOW IMPEDANCE ENABLE: TTL compatible input pin that activates the FDCHG switches. A low level activates the switches and the falling edge of the internal FDCHG triggers the fast decay for the MIRR bottom hold circuit.(open high)
33	MLPF2	–	MIRR SIGNAL LPF PIN: The external capacitance is connected to VPB.
34	MLPF1	–	MIRR SIGNAL LPF PIN: The external capacitance is connected to VPB.
35	MIN	I	RF SIGNAL INPUT FOR MIRROR: AC coupled inputs for the mirror dection circuit from pull-in signal output (PI).

Pin No.	Pin Name	I/O	Description
36	PI	O	PULL-IN SIGNAL OUTPUT: The summing signal output of A,B,C,D inputs for mirror detection. Reference to VCI.
37	DFT	O	DEFECT OUTPUT: Pseudo CMOS output. When defect is detected, the DFT output goes high. Also the servo AGC output can be monitored at this DFT pin, when CAR bit7-4 is '0011'.
38	TPH	–	PI TOP HOLD PIN: An external capacitance is connected to VPB.
39	TZC	O	TRACKING ZERO CROSSING SIGNAL OUTPUT: Tracking zero crossing output. Pseudo CMOS output.
40	TEI	I	TRACKING ERROR AC COUPLED INPUT: AC couple input for the tracking zero crossing signal output.
41	TE	O	TRACKING ERROR SIGNAL OUTPUT: Tracking error output reference to VCI.
42	FE	O	FOCUSING ERROR SIGNAL OUTPUT: Focus error output reference to VCI.
43	CE	O	CENTER ERROR SIGNAL OUTPUT: Center error output reference to VCI.
44	BYP2	–	The Servo AGC integration capacitor CBYP2, is connected between BYP2 and VNB.
45	HOLD2	I	HOLD CONTROL: TTL compatible control pin which, when pulled high,disables the Servo AGC charge pump and holds the Servo AGC amplifier gain as its present value. (open high)
46	SCLK	I	SERIAL CLOCK: Serial clock CMOS input. The clock applied to this pin is synchronized with the data applied to SDATA. (not to be left open)
47	SDATA	I/O	SERIAL DATA: Serial data bidirectional CMOS pin. NRZ programming data for the internal registers is applied to this input. (not to be left open)
48	SDEN	I	SERIAL DATA ENABLE: Serial enable CMOS input. A high level input enables the serial port. (not to be left open)
49	HOLD1	I	HOLD CONTROL: TTL compatible control pin which, when pulled high, disables the RF AGC charge pump and holds the RF AGC amplifier gain as its present value. (open high)
50	VNA	–	Ground pin for the RF block and serial port.
51	FNN	O	DIFFERENTIAL NORMAL OUTPUTS: Filter normal outputs.
52	FNP	O	
53	DIP	I	ANALOG INPUTS FOR RF SINGLE BUFFER: Differential analog inputs to the RF single-end output buffer and full wave rectifier.
54	DIN	I	
55	RX	–	REFERENCE RESISTOR INPUT: An external 12.1 or 8.2 k ohm, 1% resistor is connected from this pin to ground to establish a precise PTAT (proportional to absolute temperature) reference current for the filter.
56	BYP	–	The RF AGC integration capacitor CBYP, is connected between BYP and VPA.
57	SIGO	O	SINGLE-ENDED NORMAL OUTPUT: Single-ended RF output.
58	VPA	–	Power supply pin for the RF block and serial port.
59	AIP	I	AGC AMPLIFIER INPUTS: Differential AGC amplifier input pins.
60	AIN	I	
61	ATON	O	DIFFERENTIAL ATTENUATOR OUTPUTS: Attenuator outputs.
62	ATOP	O	
63	CDRF	I	RF SIGNAL INPUT : Single-ended RF signal attenuator input pin.
64	CDRFDC	O	CD RF SIGNAL OUTPUT: Single-ended CD RF summing output.

Pin No.	Pin Name	I/O	Description
1	VCC	–	Power Supply (+3.3 V)
2 ~ 5	I/O1 ~ I/O4	I/O	Data-In / Data-Out
6	VCC	–	Power Supply (+3.3 V)
7 ~ 10	I/O5 ~ I/O8	I/O	Data-In / Data-Out
11, 12	NC	–	Not used
13	$\overline{WE}$	I	Write Enable
14	$\overline{RAS}$	I	Row Address Strobe
15	NC	–	Not used
16 ~ 19	A0 ~ A3	I	Address Input
20	VCC	–	Power Supply (+3.3 V)
21	VSS	–	Ground (0 V)
22 ~ 26	A4 ~ A8	I	Address Input
27	$\overline{OE}$	I	Output Enable
28	$\overline{UCAS}$	I	Column Address Strobe
29	$\overline{LCAS}$	I	Column Address Strobe
30	NC	–	Not used
31 ~ 34	I/O9 ~ I/O12	I/O	Data-In / Data-Out
35	VSS	–	Ground (0 V)
36 ~ 39	I/O13 ~ I/O16	I/O	Data-In / Data-Out
40	VSS	–	Ground (0 V)

Pin No.	Pin Name	I/O	Description
1	VCC	–	3.3 V is applied. (VCC is for the internal circuit.)
2	DQ0	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
3	DQ1		
4	VSSQ	–	Ground is connected. (VSSQ is for the output buffer.)
5	DQ2	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
6	DQ3		
7	VCCQ	–	3.3 V is applied. (VCCQ is for the output buffer.)
8	DQ4	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
9	DQ5		
10	VSSQ	–	Ground is connected. (VSSQ is for the output buffer.)
11	DQ6	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
12	DQ7		
13	VCCQ	–	3.3 V is applied. (VCCQ is for the output buffer.)
14	LDQM	I	DQM controls input/output buffers. - Read operation: If DQM is High, The output buffer becomes High-Z. If the DQM is Low, the output buffer becomes Low-Z. - Write operation: If DQM is High, the previous data is held (the new data is not written). If DQM is Low, the data is written.
15	$\overline{\text{MWE}}$	I	Although these pin names are the same as those of conventional DRAMs, they function in a different way. These pins define operation commands (read, write, etc.) depending on the combination of their voltage levels. For details, refer to the command operation section.
16	$\overline{\text{CAS}}$		
17	$\overline{\text{RAS}}$		
18	$\overline{\text{CS1}}$	I	When $\overline{\text{CS}}$ is Low, the command input cycle becomes valid. When $\overline{\text{CS}}$ is high, all inputs are ignored. However, internal operations (bank active, burst operations, etc.) are held.
19	MA11	I	A11 is a bank select signal (BS). The memory array of the GM72V161621ET/ELT Series is divided into bank 0 and bank 1. GM72V161621ET/ELT Series contain 2048 row x 256 column x 16bits. If A11 is Low, bank 0 is selected, and if A11 is High , bank 1 is selected.
20	MA10	I	Row address (AX0 to AX10) is determined by A0 to A10 level at the bank active command cycle CLK rising edge. Column address is determined by A0 to A7 level at the read or write command cycle CLK rising edge. And this column address becomes burst access start address. A10 defines the precharge mode. When A10 = High at the precharge command cycle, both banks are precharged. But when A10 = Low at the precharge command cycle, only the bank that is selected by A11 (BS) is precharged.
21	MA0		
22	MA1		
23	MA2		
24	MA3		
25	VCC	–	3.3 V is applied. (VCC is for the internal circuit.)
26	GND	–	Ground is connected. (VSS is for the internal circuit.)
27	MA4	I	Row address (AX0 to AX10) is determined by A0 to A10 level at the bank active command cycle CLK rising edge. Column address is determined by A0 to A7 level at the read or write command cycle CLK rising edge. And this column address becomes burst access start address. A10 defines the precharge mode. When A10 = High at the precharge command cycle, both banks are precharged. But when A10 = Low at the precharge command cycle, only the bank that is selected by A11 (BS) is precharged.
28	MA5		
29	MA6		
30	MA7		
31	MA8		
32	MA9		
33	NC	–	Not used.

Pin No.	Pin Name	I/O	Description
34	CKE	I	This pin determines whether or not the next CLK is valid. If CKE is High, the next CLK rising edge is valid. If CKE is Low, the next CLK rising edge is invalid. This pin is used for power-down and clock suspend modes.
35	CLK	I	CLK is the master clock input to this pin. The other input signals are referred at CLK rising edge.
36	UDQM	I	DQM controls input/output buffers. - Read operation: If DQM is High, The output buffer becomes High-Z. If the DQM is Low, the output buffer becomes Low-Z. - Write operation: If DQM is High, the previous data is held (the new data is not written). If DQM is Low, the data is written.
37	NC	–	Not used
38	VCCQ	–	3.3 V is applied. (VCCQ is for the output buffer.)
39	MD8	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
40	MD9		
41	VSSQ	–	Ground is connected. (VSSQ is for the output buffer.)
42	MD10	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
43	MD11		
44	VCCQ	–	3.3 V is applied. (VCCQ is for the output buffer.)
45	MD12	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
46	MD13		
47	VSSQ	–	Ground is connected. (VSSQ is for the output buffer.)
48	MD14	I/O	Data is input and ouput from these pins. These pins are the same as those of a conventional DRAM.
49	MD15		
50	GND	–	Ground is connected. (VSS is for the internal circuit.)

Pin No.	Pin Name	I/O	Description
1	LRCIN	I	Left and Right Clock Input. This clock is equal to the sampling rate - fs.(1)
2	DIN	I	Serial Audio Data Input. (1)
3	BCKIN	I	Bit Clock Input for Serial Audio Data.(1)
4	CLKO	O	Buffered Output of Oscillator. Equivalent to System Clock.
5	XTI	I	Oscillator Input (External Clock Input)
6	XTO	O	Oscillator Output
7	DGND	–	Digital Ground
8	VDD	–	Digital Power +5V
9	VCC2R	–	Analog Power +5V
10	AGND2R	–	Analog Ground
11	EXTR	O	Rch, Common Pin of Analog Output Amp
12	NC	–	Not used
13	VOUTR	O	Rch, Analog Voltage Output of Audio Signal
14	AGND1	–	Analog Ground
15	VCC1	–	Analog Power +5V
16	VOUTL	O	Lch, Analog Voltage Output of Audio Signal
17	NC	–	Not used
18	EXTL	O	Lch, Common Pin of Analog Output Amp
19	AGND2L	–	Analog Ground
20	VCC2L	–	Analog Power +5V
21	ZERO	O	Zero Data Flag
22	$\overline{\text{RST}}$	I	Reset. When this pin is low, the DF and modulators are held in reset. (2)
23	$\overline{\text{CS}}$/IWO	I	Chip Select/Input Format Selection. When this pin is low, the Mode Control is effective. (3)
24	MODE	I	Mode Control Select. (H: Software, L: Hardware). (2)
25	$\overline{\text{MUTE}}$	I	Mute Control
26	MD/DM0	I	Mode Control, DATA/De-emphasis Selection 1. (2)
27	MC/DM1	I	Mode Control, BCK/De-emphasis Selection 2. (2)
28	ML/IIS	I	Mode Control, WDCK/Input Format Selection. (2)

NOTES: (1) Pins 1, 2, 3; Schmitt Trigger input.
(2) Pins 22, 24, 25, 26, 27, 28; Schmitt Trigger input with pull-up resister.
(3) Pin 23; Schmitt Trigger input with pull-down resister.

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Pin No.	Pin Name	I/O	Description
1 ~ 8	A16 ~ A9	I	Addresses
9	A20	I	Addresses
10	NC	–	Not used
11	$\overline{WE}$	I	Write Enable
12	$\overline{RESET}$	I	Reset
13 ~ 15	NC	–	Not used
16, 17	A18, A17	I	Addresses
18 ~ 25	A7 ~ A0	I	Addresses
26	$\overline{CE}$	I	Chip Enable
27	GND	–	Ground
28	$\overline{OE}$	O	Output Enable
29	I/O0	I/O	Data Inputs/Outputs
30	I/O8	I/O	
31	I/O1	I/O	
32	I/O9	I/O	
33	I/O2	I/O	
34	I/O10	I/O	
35	I/O3	I/O	
36	I/O11	I/O	
37	VCC	–	
38	I/O4	I/O	Data Inputs/Outputs
39	I/O12	I/O	
40	I/O5	I/O	
41	I/O13	I/O	
42	I/O6	I/O	
43	I/O14	I/O	
44	I/O7	I/O	
45	I/O15/A-1	I/O	I/O15 (Data Input/Output, Word Mode) A-1 (LSB Address Input, Byte Mode)
46	GND	–	Ground
47	$\overline{BYTE}$	I	Selects Byte or Word Mode
48	A17	I	Addresses

Pin No.	Pin Name	I/O	Description
1	DAT1	I/O	Bi-directional data to DRAM
2	DAT2	I/O	Bi-directional data to DRAM
3	DAT3	I/O	Bi-directional data to DRAM
4	DAT4	I/O	Bi-directional data to DRAM
5	DAT5	I/O	Bi-directional data to DRAM
6	DAT6	I/O	Bi-directional data to DRAM
7	DAT7	I/O	Bi-directional data to DRAM
8	DAT8	I/O	Bi-directional data to DRAM
9	DAT9	I/O	Bi-directional data to DRAM
10	DAT10	I/O	Bi-directional data to DRAM
11	DAT11	I/O	Bi-directional data to DRAM
12	DAT12	I/O	Bi-directional data to DRAM
13	DAT13	I/O	Bi-directional data to DRAM
14	DAT14	I/O	Bi-directional data to DRAM
15	DAT15	I/O	Bi-directional data to DRAM
16	DAT16	I/O	Bi-directional data to DRAM
17	VSS	–	Digital ground
18	ADD1	O	Address output to DRAM
19	ADD2	O	Address output to DRAM
20	ADD3	O	Address output to DRAM
21	ADD4	O	Address output to DRAM
22	VDD	–	Digital power supply
23	ADD5	O	Address output to DRAM
24	ADD6	O	Address output to DRAM
25	ADD7	O	Address output to DRAM
26	ADD8	O	Address output to DRAM
27	ADD9	O	Address output to DRAM
28	X2_MCK	I	Master clock from oscillator for 2x decoding
29	VSS	–	Digital GND
30	MCK	I	Master clock from oscillator
31	VDD	–	Digital power supply
32	RAS	O	Row address strobe to DRAM
33	UCAS	O	Column address upper byte control strobe to DRAM
34	LCAS	O	Column address lower byte control strobe to DRAM
35	WE	O	Write enable signal to DRAM
36	OE	O	Output enable signal to DRAM
37	SCAN_IN	I	Scan data input
38	TEST_SE	I	Test mode selection (low for normal)
39	TEST_OUT12	O	Test output
40	TEST_OUT11	O	Test output
41	TEST_OUT10	O	Test output
42	TEST_OUT9	O	Test output

Pin No.	Pin Name	I/O	Description
43	TEST_OUT8	O	Test output
44	TEST_OUT7	O	Test output
45	TEST_OUT6	O	Test output
46	T_SEL	I	Test mode selection
47	TEST_OUT5	O	Test output
48	TEST_OUT4	O	Test output
49	TEST_OUT3	O	Test output
50	TEST_OUT2	O	Test output
51	TEST_OUT1	O	Test output
52	TEST_OUT0	O	Test output
53	TEST_SEL0	I	Test mode output selection
54	TEST_SEL1	I	Test mode output selection
55	TEST_SEL2	I	Test mode output selection
56	TEST_SEL3	I	Test mode output selection
57	TESTSERVO	I	TEST PIN (NORMAL STATE = H)
58	E_SIN	I	SERVO DSP PGM. DOWNLOADING DATA INPUT
59	E_CLK	I	SERVO DSP PGM. DOWNLOADING CLK
60	E_ENB	I	SERVO DSP DOWNLOADING ENABLE
61	E_DRB	I	SERVO DSP PGM. DOWNLOADING DIRECTION
62	VSS	–	Digital GND
63	SERVO_CLK	I	SERVO DSP CLOCK INPUT
64	E_SOUT	O	SERVO DSP PGM. DOWNLOADING DATA OUTPUT
65	VDD	–	Digital power supply
66	E_ST0	O	SERVO DSP DOWNLOADING STATUS 0
67	E_ST1	O	SERVO DSP DOWNLOADING STATUS 1
68	E_ST2	O	SERVO DSP DOWNLOADING STATUS 2
69	GPIO7	I/O	SERVO DSP GENERAL I/O: FSON(FOCUS OK INVERTING)
70	GPIO6	I/O	SERVO DSP GENERAL I/O: PSEL
71	GPIO5	I/O	SERVO DSP GENERAL I/O: ADADDR3
72	GPIO4	I/O	SERVO DSP GENERAL I/O: FKRST
73	GPIO3	I/O	SERVO DSP GENERAL I/O: FKSET
74	GPIO2	I/O	SERVO DSP GENERAL I/O: FEL
75	GPIO1	I/O	SERVO DSP GENERAL I/O
76	GPIO0	I/O	SERVO DSP GENERAL I/O: DSP_SENSE
77	VSS	–	Digital GND
78	SENS	O	SERVO DSP INTERNAL STATUS MONITOR
79	VDD	–	Digital power supply
80	SCLK	I	Serial Command CLOCK
81	SDATA	I	Serial Command DATA
82	XLAT	I	Serial Command LATCH
83	AOUT1	O	FDO
84	AOUT2	O	TDO

Pin No.	Pin Name	I/O	Description
85	AVDD	–	Analog power supply for ADC
86	VCM	O	TDF
87	AGND	–	Analog GND for ADC
88	AOUT3	O	FMQ
89	AOUT4	O	D_VREF
90	DGND	–	Digital GND for ADC
91	RFVCM	I	TDF
92	VDD	–	Analog GND for ADC
93	AGND	–	TDF
94	VREFN	I	TDF
95	VREFP	I	TDF
96	INP	I	TDF
97	AGND	–	Analog GND for ADC
98	AIN4	I	TDF
99	AIN3	I	TDF
100	AVDD	–	Analog power for ADC
101	AIN2	I	TDF
102	AIN1	I	TDF
103	AIN0	I	TDF
104	ADCVCM	I	TDF
105	SCK	O	PLL clock output
106	EXT_AD0	I	ADC data input
107	EXT_AD1	I	ADC data input
108	EXT_AD2	I	ADC data input
109	EXT_AD3	I	ADC data input
110	EXT_AD4	I	ADC data input
111	EXT_AD5	I	ADC data input
112	SELEFM	I	EFMDATA INPUT SELECTION
113	EXCK	I	SUB DATA REQUEST INPUT
114	SQCK	I	SUB Q DATA REQUEST
115	C16M	O	5.6448 MHz(DIGITAL OUT CLOCK)
116	DOTX	O	CD DIGITAL DATA OUTPUT
117	VDD	–	Digital power supply
118	SQSO	O	SUB Q DATA OUTPUT
119	VSS	–	Digital GND
120	PWMCH1	O	PWM CHANNEL1(x3 CARRIER)
121	PWMCH2	O	PWM CHANNEL1(x3 CARRIER)
122	PWMCH3	O	PWM CHANNEL1(x3 CARRIER):SLED DRIVE OUTPUT
123	PWMCH4	O	PWM CHANNEL1(x1 CARRIER):PDO_CTR PWM OUTPUT
124	PWMCH5	O	PWM CHANNEL1(x1 CARRIER):RF_GAIN_CTL PWM OUTPUT
125	PWMCH6	O	PWM CHANNEL1(x1 CARRIER):TE_BAL_CTL PWM OUTPUT
126	DEFECT_IN_A	I	EXTERNAL DEFECT INPUT PIN

Pin No.	Pin Name	I/O	Description
127	SI_ENC1	I	SLED ENCODER1 INPUT
128	SI_ENC2	I	SLED ENCODER2 INPUT
129	TZC	I	TRACK CROSS PULSE 2 INPUT
130	MIRR	I	TRACK CROSS PULSE 1 INPUT
131	MSDATAO	O	SERVO DSP INTENAL STATUS SERIAL OUTPUT
132	FOK	O	INTERNAL GENERATED FOK(Focus OK) H=OK
133	VDD	–	Digital power supply
134	DEFECT	O	INTERNAL GENERATED DEFECT : H=DEFECT
135	VSS	–	Digital GND
136	SLD_FG	O	SLD_FG=(SL_ENC1) XOR (SL_ENC2)
137	C_SIG	O	TRACK CROSS PULSE
138	COMP	O	TRACK CROSS MONITOR
139	INT1	O	SERVO DSP INTERRUPT 1 MONITOR(MICOM COMMAND INT)
140	INT2	O	SERVO DSP INTERRUPT 2 MONITOR(FOCUS SERVO INT)
141	VSS	–	Digital GND
142	INT3	O	SERVO DSP INTERRUPT 1 MONITOR(TRACK SERVO INT)
143	INT4	O	SERVO DSP INTERRUPT 1 MONITOR
144	VDD	–	Digital power supply
145	ADCSB	O	PLESSY D/A CHIP SELECTION
146	ADCOMP_	I	A/D 7824 A/D CONVERTER A/D CONVERSION END STATUS
147	VDCDATA0	I	A/D 7824 A/D CONVERTER DATA BUS0
148	VDCDATA1	I	A/D 7824 A/D CONVERTER DATA BUS1
149	VDCDATA2	I	A/D 7824 A/D CONVERTER DATA BUS2
150	VDCDATA3	I	A/D 7824 A/D CONVERTER DATA BUS3
151	VDCDATA4	I	A/D 7824 A/D CONVERTER DATA BUS4
152	VDCDATA5	I	A/D 7824 A/D CONVERTER DATA BUS5
153	VDCDATA6	I	A/D 7824 A/D CONVERTER DATA BUS6
154	VDCDATA7	I	A/D 7824 A/D CONVERTER DATA BUS7
155	ADADDR0	O	A/D 7824 A/D CONVERTER ADDRESS
156	DVDD	–	Digital power supply for ADC
157	ADADDR1	O	A/D 7824 A/D CONVERTER ADDRESS
158	DGND	–	Digital GND for ADC
159	AGND	–	Analog GND for ADC
160	VRT	I	TDF
161	AVDD	–	Analog power supply for ADC
162	RF	I	TDF
163	VRM	I	TDF
164	VRB	I	TDF
165	MDS	O	Spindle motor control signal
166	MDP	O	Spindle motor control signal
167	OVER64	O	Spindle motor reversal sensing signal output

Pin No.	Pin Name	I/O	Description
168	MON	O	Spindle motor ON/OFF control signal
169	LOCK	O	CLV servo lock signal
170	FG_M	I	TDF
171	VSS	–	Digital GND
172	SCAN_OUT	O	SCAN DATA OUTPUT (Not used)
173	VDD	–	Digital power supply
174	INT	O	Interrupt request to Host
175	RN	I	Read strobe from HOST
176	WN	I	Write strobe from HOST
177	CS	I	Chip select from HOST
178	A0	I	Internal register address from HOST
179	A1	I	Internal register address from HOST
180	A2	I	Internal register address from HOST
181	A3	I	Internal register address from HOST
182	A4	I	Internal register address from HOST
183	A5	I	Internal register address from HOST
184	VSS	–	Digital GND
185	PS0	I/O	Bi-directional data to Host
186	VDD	–	Digital power supply
187	PS1	I/O	Bi-directional data to Host
188	PS2	I/O	Bi-directional data to Host
189	PS3	I/O	Bi-directional data to Host
190	PS4	I/O	Bi-directional data to Host
191	PS5	I/O	Bi-directional data to Host
192	PS6	I/O	Bi-directional data to Host
193	PS7	I/O	Bi-directional data to Host
194	RESET	I	HARDWARE RESET
195	REQ_DIVX	I	Data request from DIVX module
196	REQ_MPEG	I	Data request from MPEG
197	MPEG1	O	MPEG data
198	MPEG2	O	MPEG data
199	MPEG3	O	MPEG data
200	MPEG4	O	MPEG data
201	MPEG5	O	MPEG data
202	MPEG6	O	MPEG data
203	MPEG7	O	MPEG data
204	MPEG8	O	MPEG data
205	SENB	O	MPEG data valid signal (low for valid)
206	SDCLK	O	MPEG data transfer clock
207	SERR	O	MPEG data error detection signal (low indicates error occurred)
208	SYNC	O	SERVO DSP INTERRUPT 1 MONITOR(MICOM COMMAND INT)

Pin No.	Pin Name	I/O	Description
1	$\overline{IRQ6}$	I	Interrupt request 6.
	TP14	O	Timing pattern output 14. Timing pattern output pins.
	PB14	I/O	Port B: 16-bit input/output pins. Input or output can be selected individually for each bit.
2	$\overline{IRQ7}$	I	Interrupt request 7.
	TP15	O	Timing pattern output 15. Timing pattern output pins.
	PB15	I/O	Port B: 16-bit input/output pins. Input or output can be selected individually for each bit.
3	VSS	–	Ground
4 ~ 11	AD0 ~ AD7	I/O	Data bus
12	VSS	–	Ground
13, 14	AD8, AD9	I/O	Data bus
15	VCC	–	Power.
16 ~ 21	AD10 ~ AD15	I/O	Data bus
22	VSS	–	Ground
23	A0	O	Address bus
	$\overline{HBS}$		Upper/lower byte strobe: Upper and lower byte strobe signals. (Also used as WRH and A0.)
24 ~ 30	A1 ~ A7	O	Address bus
31	VSS	–	Ground
32 ~ 39	A8 ~ A15	O	Address bus
40	VSS	–	Ground
41, 42	A16, A17	O	Address bus
43	VCC	–	Power.
44 ~ 47	A18 ~ A21	O	Address bus
48	$\overline{CS0}$	O	Chip select 0. Chip select signals for accessing external memory and devices.
49	$\overline{CASH}$	O	Column address strobe high. DRAM column address strobe timing signal. Output to access the upper eight data bits.
	$\overline{CS1}$		Chip select 1. Chip select signals for accessing external memory and devices.
50	$\overline{CS2}$	O	Chip select 2. Chip select signals for accessing external memory and devices.
51	$\overline{CASL}$	O	Column address strobe low. DRAM column address strobe timing. Output to access the lower eight data bits.
	$\overline{CS3}$		Chip select 3. Chip select signals for accessing external memory and devices.
52	VSS	–	Ground
53	TIOCA0	I/O	ITU input capture/output compare (channel 0). Input capture or output compare pins.
	PA0		Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
	$\overline{CS4}$	O	Chip select 4. Chip select signals for accessing external memory and devices.
54	$\overline{RAS}$	I/O	Row address strobe. DRAM row-address strobe timing signal.
	PA1		Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
	$\overline{CS5}$	O	Chip select 5. Chip select signals for accessing external memory and devices.
55	TIOCB0	I/O	ITU input capture/output compare (channel 0). Input capture or output compare pins.
	PA2		Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
	$\overline{CS6}$	O	Chip select 6. Chip select signals for accessing external memory and devices.

Pin No.	Pin Name	I/O	Description
56	$\overline{WAIT}$	I	Wait. Requests the insertion of wait states (TW) into the bus cycle when the external address space is accessed.
	$\overline{CS7}$	O	Chip select 7. Chip select signals for accessing external memory and devices.
	PA3	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
57	$\overline{WRL}$	O	Lower write. Indicates write access to the lower eight bits of an external device.
	$\overline{WR}$		Write. Brought low during write access. (Also used as $\overline{WRL}$.)
	PA4	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
58	$\overline{WRH}$	O	Upper write. Indicates write access to the upper eight bits of an external device.
	$\overline{LBS}$		Upper/lower byte strobe. Upper and lower byte strobe signals. (Also used as WRH and A0.)
	PA5	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
59	$\overline{RD}$	O	Read. Indicates reading of data from an external device.
	PA6	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
60	$\overline{BACK}$	O	Bus request acknowledge.
	PA7	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
61	VSS	–	Ground
62	$\overline{BREQ}$	I	Bus request. Driven low by an external device to request bus ownership.
	PA8	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
63	$\overline{IRQOUT}$	O	Slave interrupt request output.
	$\overline{AH}$		Address hold. Address hold timing signal for a device using a multiplexed address/data bus.
	$\overline{ADTRG}$	I	A/D trigger input: External trigger input for starting A/D conversion.
	PA9	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
64	DPL		Lower data bus parity
	TIOCA1	I/O	ITU input capture/output compare (channel 1). Input capture or output compare pins.
	PA10		Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
65	DPH		Upper data bus parity
	TIOCB1	I/O	ITU input capture/output compare (channel 1). Input capture or output compare pins.
	PA11		Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
66	$\overline{IRQ0}$	I	Interrupt request 0.
	TCLKA		ITU timer clock input. External clock input pins for ITU counters.
	DACK0	O	DMA transfer acknowledge (channel 1). Indicates that DMA transfer is acknowledged.
	PA12	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
67	$\overline{IRQ1}$		Interrupt request 1
	TCLKB	I	ITU timer clock input. External clock input pins for ITU counters.
	DREQ0		DMA transfer request (channel 0). Input pins for external DMA transfer requests.
	PA13	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
68	$\overline{IRQ2}$	I	Interrupt request 2.
	DACK1	O	DMA transfer acknowledge (channels 0 and 1). Indicates that DMA transfer is acknowledged.
	PA14	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
69	$\overline{IRQ3}$	I	Interrupt request 3.
	DREQ1		DMA transfer request (channels 0 and 1). Input pins for external DMA transfer requests.
	PA15	I/O	Port A. 16-bit input/output pins. Input or output can be selected individually for each bit.
70	VCC	–	Power.

Pin No.	Pin Name	I/O	Description
71	CK	O	System clock
72	VSS	–	Ground
73	EXTAL	I	External clock.
74	XTAL	I	Crystal.
75	VCC	–	Power.
76	NMI	I	Nonmaskable interrupt.
	$\overline{\text{WDTOVF}}$	O	Watchdog timer overflow. Overflow output signal from the watchdog timer.
77	VCC	–	Power.
	VPP	I	PROM programming power supply
78	WDTOPVF	–	Not used
79	$\overline{\text{RES}}$	I	Reset. Low input causes a power-on reset if NMI is high, or a manual reset if NMI is low.
80 ~ 82	MD0 ~ MD2	I	Mode select.
83, 84	VCC	–	Power.
85	AVCC	–	Analog power supply. Power supply pin for analog circuits. Connect to the VCC potential.
86	AVREF	–	Analog reference power supply. Input pin for the analog reference voltage.
87	PC0/AN0	I	Port C. 8-bit input pins. Analog input: Analog signal input pins.
88	PC1/AN1		
89	PC2/AN2		
90	PC3IAN3		
91	AVSS	–	Analog ground. Power supply pin for analog circuits. Connect to the VSS potential.
92	PC4/AN4	I	Port C. 8-bit input pins. Analog input. Analog signal input pins.
93	PC5/AN5		
94	PC6/AN6		
95	PC7/AN7		
96	VSS	–	Ground
97	TP0	O	Timing pattern output 0. Timing pattern output pins.
	TIOCA2	I/O	ITU input capture/output compare (channel 2). Input capture or output compare pins.
	PB0		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
98	TP1	O	Timing pattern output 1. Timing pattern output pins.
	TIOCB2	I/O	ITU input capture/output compare (channel 2). Input capture or output compare pins.
	PB1		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
99	VCC	–	Power.
100	TP2	O	Timing pattern output 2. Timing pattern output pins.
	TIOCA3	I/O	ITU input capture/output compare (channel 3). Input capture or output compare pins.
	PB2		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
101	TP3	O	Timing pattern output 3. Timing pattern output pins.
	TIOCB3	I/O	ITU input capture/output compare (channel 3). Input capture or output compare pins.
	PB3		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
102	TP4	O	Timing pattern output 4. Timing pattern output pins.
	TIOCA4	I/O	ITU input capture/output compare (channel 4). Input capture or output compare pins.
	PB4		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.

Pin No.	Pin Name	I/O	Description
103	TP5	O	Timing pattern output 5. Timing pattern output pins.
	TIOCB4	I/O	ITU input capture/output compare (channel 4). Input capture or output compare pins.
	PB5		Port B: 16-bit input/output pins. Input or output can be selected individually for each bit.
104	TOCXA4	O	ITU output compare (channel 4). Output compare pins.
	TP6		Timing pattern output 6. Timing pattern output pins.
	TCLKC	I	ITU timer clock input. External clock input pins for ITU counters.
	PB6	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
105	TOCXB4	O	ITU output compare (channel 4). Output compare pins.
	TP7		Timing pattern output 7. Timing pattern output pins.
	TCLKD	I	ITU timer clock input. External clock input pins for ITU counters.
	PB7	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
106	VSS	–	Ground
107	RxD0	I	Receive data (channels 0). Receive data input pins for SCI0.
	TP8	O	Timing pattern output 8. Timing pattern output pins.
	PB8	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
108	TxD0	O	Transmit data (channels 0). Transmit data output pins for SCI0.
	TP9		Timing pattern output 9. Timing pattern output pins.
	PB9	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
109	RxD1	I	Receive data (channels 1). Receive data input pins for SCI1.
	TP10	O	Timing pattern output 10. Timing pattern output pins.
	PB10	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
110	TxD1	O	Transmit data (channels 1). Transmit data output pins for SCI1.
	TP11		Timing pattern output 11. Timing pattern output pins.
	PB11	I/O	Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
111	$\overline{\text{IRQ4}}$	I	Interrupt request 4.
	TP12	O	Timing pattern output 12. Timing pattern output pins.
	SCK0	I/O	Serial clock (channels 0). Clock input/output pins for SCI0.
	PB12		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit.
112	$\overline{\text{IRQ5}}$	I	Interrupt request 5.
	TP13	O	Timing pattern output 13. Timing pattern output pins.
	SCK1	I/O	Serial clock (channels 1). Clock input/output pins for SCI1.
	PB13		Port B. 16-bit input/output pins. Input or output can be selected individually for each bit

Pin No.	Pin Name	I/O	Description
1	VCC1	–	Positive power supply except for ports, analog, and FIP controller/driver
2	VSS1	–	Ground potential except for ports and analog
3	X1	–	Crystal connection for main system clock oscillation
4	X2	–	
5	IC	–	Internally connected. Connect directly to VSS1.
6	$\overline{\text{RESET}}$	I	System reset input
7	$\overline{\text{SCK1}}$	I/O	Serial interface serial clock I/O
8	SI1	I	Serial interface serial data input
9	SO1	O	Serial interface serial data output
10	BUSY	I	Serial interface automatic transmit-receive busy signal output
11	P23	–	Not used.
12	P22	–	Not used.
13	SO3	–	Not used.
14	$\overline{\text{SCK3}}$	–	Not used.
15	INTP0	I	Valid edge (rising edge, falling edge, or both rising and falling edges) can be specified. External interrupt request input.
16	INTP1	I	
17	TI	I	8-bit remote control timer (TM9) timer input
18	AVSS	–	A/D converter ground potential. Keep the same potential with VSS1.
19	ANT0	I	A/D converter analog input.
20	ANT1	I	
21	ANT2	I	
22	ANT3	I	
23	VSS0	–	Ground potential except for ports and analog.
24	AVDD	–	A/D converter analog power supply/reference voltage input. Keep the same potential with VCC1.
25	VCC0	–	Positive power supply for ports.
26 ~ 58	FIP52 ~ FIP20	O	FIP controller/driver high withstand voltage large current output.
59	VCC2	–	Positive power supply for FIP controller/driver.
60	VLOAD	–	FIP controller/driver pull-down resistor connection.
61 ~ 80	FIP19 ~ FIP0	O	FIP controller/driver high withstand voltage large current output.

Pin No.	Pin Name	I/O	Description
1	$\overline{RD}$	I	Read strobe in I mode. Must be held HIGH in M Mode.
2	R/$\overline{W}$	I	Read/write strobe in M mode. Write strobe in I mode. Host asserts R/$\overline{W}$ LOW to select Write and LOW to select Read for M Mode only.
3	VDD_3.3	–	3.3-V supply voltage for I/O signals.
4	$\overline{WAIT}$	O	Transfer not complete / data acknowledge. Active LOW to indicate host initiated transfer is not complete. $\overline{WAIT}$ is asserted after the falling edge of $\overline{CS}$ and reasserted when decoder is ready to complete transfer cycle. Open drain signal, must be pulled-up via 1k ohm to 3.3 volts. Driven high for 10 ns before tristate.
5	$\overline{RESET}$	I	Active Low Reset. Assert for at least 5-milliseconds in the presence of clock to reset the entire chip.
6	VSS	–	Ground for core logic and I/O signals.
7	VDD_3.3_5	–	3.3/5-V supply voltage for I/O signals.
8	$\overline{INT}$	O	Host interrupt. Open drain signal, must be pulled-up via 4.7k ohm to 3.3 volts. Driven high for 10 ns before tristate.
9 ~ 12	NC	O	Not used
13	VDD_2.5	–	2.5-V supply voltage for core logic.
14	VSS	–	Ground for core logic and I/O signals.
15 ~ 18	NC	O	Not used
19	VSS	–	Ground for core logic and I/O signals.
20	VDD_3.3_5	–	3.3/5-V supply voltage for I/O signals.
21 ~ 28	VDATA0 ~ VDATA7	O	Video data bus. Byte serial CbYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
29	$\overline{VSYNC}$	I/O	Vertical sync. Bi-directional, the decoder outputs the top border of a new field on the first $\overline{HSYNC}$ after the falling edge of $\overline{VSYNC}$. $\overline{VSYNC}$ can accept vertical synchronization or top/ bottom field notification from an external source. ($\overline{VSYNC}$ HIGH = bottom field. $\overline{VSYNC}$ LOW = Top field)
30	$\overline{HSYNC}$	I/O	Horizontal sync. The decoder begins outputting pixel data for a new horizontal line after the falling (active) edge of $\overline{HSYNC}$.
31	VSS	–	Ground for core logic and I/O signals.
32	VDD_3.3_5	–	3.3/5-V supply voltage for I/O signals.
33 ~ 35	NC	O	Not used
36	VDD_2.5	–	2.5-V supply voltage for core logic.
37	VSS	–	Ground for core logic and I/O signals.
38 ~ 42	NC	O	Not used
43	PIO0	I/O	Programmable I/O pins.
44	VSS	–	Ground for core logic and I/O signals.
45	VDD_3.3_5	–	3.3/5-V supply voltage for I/O signals.
46 ~ 52	PIO1 ~ PIO7	I/O	Programmable I/O pins.
53, 54	MDATA0, MDATA1	I/O	SDRAM Data
55	VDD_3.3	–	3.3-V supply voltage for I/O signals.
56	VSS	–	Ground for core logic and I/O signals.

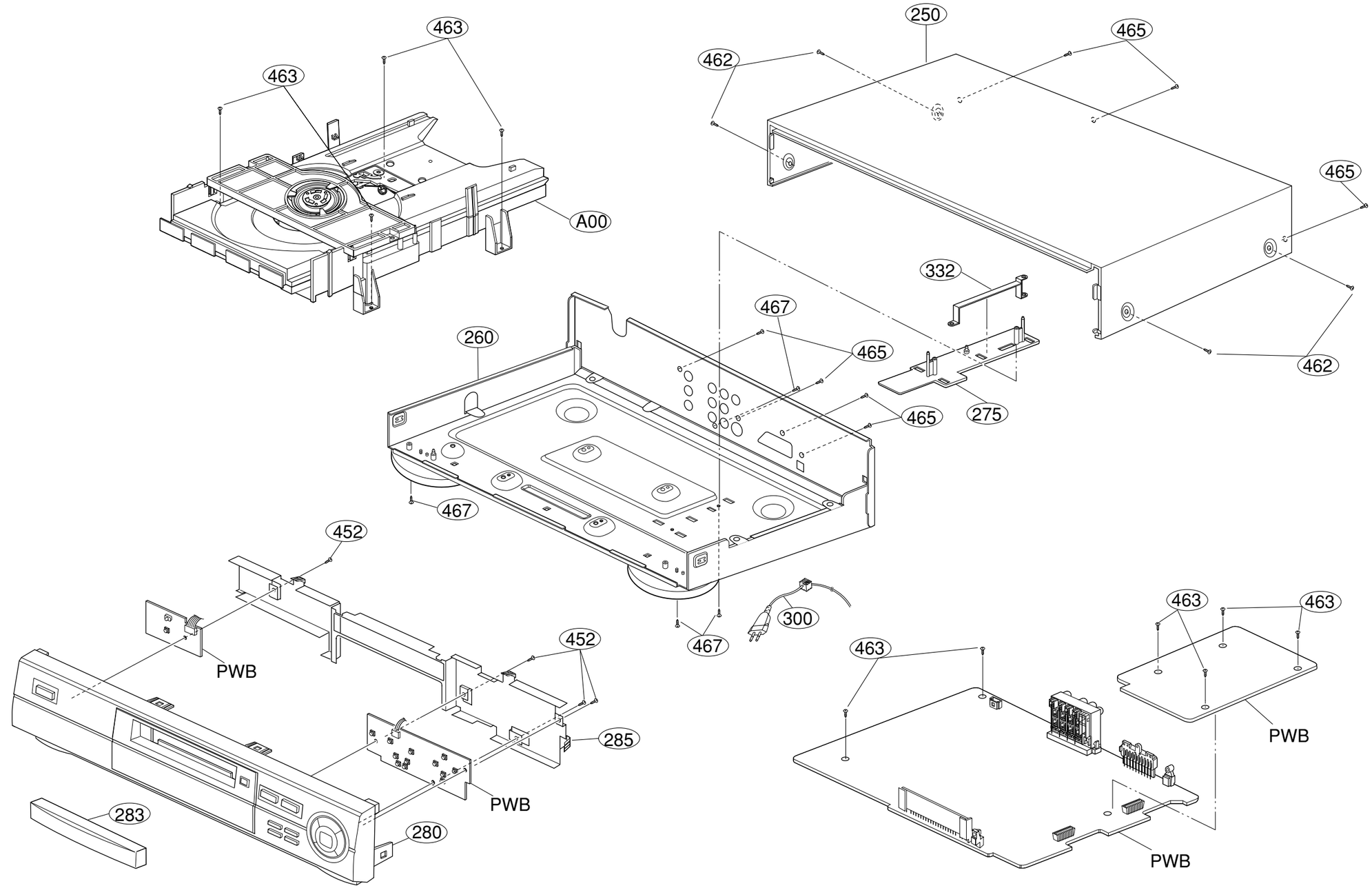
Pin No.	Pin Name	I/O	Description
57 ~ 62	MDATA2 ~ MDATA7	I/O	SDRAM Data
63	MDATA15	I/O	SDRAM Data
64	VDD_3.3	–	3.3-V supply voltage for I/O signals.
65	VSS	–	Ground for core logic and I/O signals.
66	MDATA14	I/O	SDRAM Data
67	VDD_2.5	–	2.5-V supply voltage for core logic.
68	VSS	–	Ground for core logic and I/O signals.
69 ~ 73	MDATA13 ~ MDATA9	I/O	SDRAM Data
74	VDD_3.3	–	3.3-V supply voltage for I/O signals.
75	VSS	–	Ground for core logic and I/O signals.
76	MDATA8	I/O	SDRAM Data
77	LDQM	O	SDRAM Lower or Upper Mask
78	SD-CLK	O	SDRAM Clock
79	CLKSEL	I	Selects SYSCLK or VCLK as clock source. Normal operation is to tie HIGH.
80, 81	MADDR9, MADDR8	O	SDRAM Address
82	VDD_3.3	–	3.3-V supply voltage for I/O signals.
83	VSS	–	Ground for core logic and I/O signals.
84 ~ 86	MADDR7 ~ MADDR5	O	SDRAM Address
87	VDD_2.5	–	2.5-V supply voltage for core logic.
88	VSS	–	Ground for core logic and I/O signals.
89	MADDR4	O	SDRAM Address
90	$\overline{\text{MWE}}$	O	SDRAM Write Enable
91	$\overline{\text{SD-CAS}}$	O	Active LOW SDRAM Column Address
92	VDD_3.3	–	3.3-V supply voltage for I/O signals.
93	VSS	–	Ground for core logic and I/O signals.
94	$\overline{\text{SD-RAS}}$	O	Active LOW SDRAM Row Address
95	$\overline{\text{SD-CS0}}$	O	Active LOW SDRAM Chip Select 0
96	$\overline{\text{SD-CS1}}$/MADDR11	O	Active LOW SDRAM Chip Select 1 or use as MADDR11 for larger SDRAM (64 Mbits).
97	$\overline{\text{SD-BS}}$	O	SDRAM Bank Select
98	MADDR10	O	SDRAM Address
99	MADDR0	O	SDRAM Address
100	VDD_3.3	–	3.3-V supply voltage for I/O signals.
101	VSS	–	Ground for core logic and I/O signals.
102 ~ 104	MADDR1 ~ MADDR3	O	SDRAM Address
105	VSS ADC	I	Not used
106 ~ 111	NC	–	Not used
112	DAI XCK	I	Tie to VSS or VDD_3.3
113	DAI-LRCK	I	PCM left/right clock.
114	DAI-BCK	I	PCM input bit clock.
115	VDD_3.3	–	3.3-V supply voltage for I/O signals.
116	VSS	–	Ground for core logic and I/O signals.

Pin No.	Pin Name	I/O	Description
117	DAI-DATA	I	PCM data input.
118 ~ 121	DA-DATA3~ DA-DATAO	O	PCM Data Out. Eight channels. Serial audio samples relative to DA_BCK and DA_LRCK.
122	DA-LRCK	O	PCM Left Clock. Identifies the channel for each sample. The polarity is programmable.
123	VDD_3.3	–	3.3-V supply voltage for I/O signals.
124	VSS	–	Ground for core logic and I/O signals.
125	DA-XCK	I/O	Audio External Frequency Clock input or output. DA_BCK and DA_LRCK are derived from this clock. DA_XCK can be 384 or 256 times the sampling frequency.
126	DA-BCK	O	PCM Bit Clock. Divided by 8 from DA_XCK. DA_BCK can be either 48 or 32 times the sampling frequency.
127	DA-IEC	O	PCM data out in IEC-958 format or compressed data out in IEC-1937 format.
128	VDD_2.5	–	2.5-V supply voltage for core logic.
129	VSS	–	Ground for core logic and I/O signals.
130	NC	–	Not used
131	VSS_DAC	–	Analog Video DAC Ground.
132	VSS_VIDEO	–	Analog Video Ground.
133	CVBS +sync	O	DAC video output format
134	VDD_DAC	–	3.3-V Analog Video Power.
135	VDD_VIDEO	–	3.3-V Analog Video Power.
136	NC	–	Not used
137	VSS_DAC	–	Analog Video DAC Ground.
138	VSS_VIDEO	–	Analog Video Ground.
139	CVBS/G/Y	O	DAC video output format.
140	VDD_DAC	–	3.3-V Analog Video Power.
141	VDD VIDEO	–	3.3-V Analog Video Power.
142	NC	–	Not used
143	VSS_DAC	–	Analog Video DAC Ground.
144	VSS_VIDEO	–	Analog Video Ground.
145	Y/B/U	O	DAC video output format
146	VDD DAC	–	3.3-V Analog Video Power.
147	VDD_VIDEO	–	3.3-V Analog Video Power.
148	NC	–	Not used
149	VSS_DAC	–	Analog Video DAC Ground.
150	VSS_VIDEO	–	Analog Video Ground.
151	C/R/V	O	DAC video output format
152	VDD DAC	–	3.3-V Analog Video Power.
153	VDD_VIDEO	–	3.3-V Analog Video Power.
154	VSS_RREF	–	Analog Video Ground.
155	RREF	I	Reference Resistor. Connecting to pin 139 through a 4.7k ± 1% resistor is recommended
156	VDD_RREF	–	3.3-V Analog Video Power.
157	A_VSS	–	Analog PLL Ground.
158	SYSCLK	I	Optional System Clock. Tie to A_VDD through a 1k Ohm resistor

Pin No.	Pin Name	I/O	Description
159	VCLK	I	Video clock. Clocks out data on input. VDATA[7:0]. Clock is typically 27 MHz. System clock that drives internal PLLs and internal DENC. ZiVA-4 requires an external 27-MHz TTL oscillator.
160	A_VDD	–	3.3-V Analog PLL Power
161	DVD-DATA0/CD-DATA	I	Serial CD data. This pin is shared with DVD compressed data DVD-DATA0.
162	DVD-DATA1/ CD-LRCK	I	Programmable polarity 16-bit word synchronization to the decoder (right channel HIGH). This pin is shared with DVD compressed data DVD-DATA1.
163	DVD-DATA2/ CD-BCK	I	CD bit clock. Decoder accept multiple BCK rates. This pin is shared with DVD compressed data DVD-DATA2.
164	DVD-DATA3/ CD-C2P0	I	Asserted HIGH indicates a corrupted byte. Decoder keeps the previous valid picture on-screen until the next valid picture is decoded. This pin is shared with DVD compressed data DVD-DATA3.
165	DVD-DATA4/ CDG-SDATA	I	DVD parallel compressed data from DVD DSP. Or CD+G (Subcode) data indicating serial subcode data input.
166	VSS	–	Ground for core logic and I/O signals.
167	VDD_3.3	–	3.3-V supply voltage for I/O signals.
168	DVD-DATA5/ CDG-VFSY	I	DVD parallel compressed data from DVD DSP. Or CD+G (Subcode) Frame Sync indicating frame-start or composite synchronization input.
169	DVD-DATA6/ CDG-SOS1	I	DVD parallel compressed data from DVD DSP. Or CD+G (Subcode) Block Sync indicating block-start synchronization input.
170	DVD-DATA7/ CDG-SCLK	I	DVD parallel compressed data from DVD DSP. Or CD+G (Subcode) Clock indicating subcode data clock input or output.
171	VDACK	I	In synchronous mode, bitstream data acknowledge. Asserted when DVD data is valid. Polarity is programmable.
172	VREQUEST	O	Bitstream request. Decoder asserts VREQUEST to indicate that the bitstream input buffer has available space. Polarity is programmable.
173	VSTROBE	I	Bitstream strobe. Programmable dual mode pulse. Asynchronous and synchronous. In Asynchronous mode, an external source pulses VSTROBE to indicate data is ready for transfer. In synchronous mode, VSTROBE clocks data.
174	ERROR	I	Error in input data. If ERROR signal is not available from the DSP it must be grounded.
175	VDD_3.3	–	3.3-V supply voltage for I/O signals.
176	RESERVED	I	Tie to VSS or VDD_3.3
177	VDD_3.3	–	3.3-V supply voltage for I/O signals.
178	VSS	–	Ground for core logic and I/O signals.
179	NC	–	Not used
180	RESERVED	I	Tie to VSS or VDD_3.3
181	NC	–	Not used
182 ~ 184	HADDR0 ~ HADDR2	I	Host address bus. 3-bit address bus selects one of eight host interface registers.
185 ~ 187	RESERVED	I	Tie to VSS or VDD_3.3
188	VSS	–	Ground for core logic and I/O signals.

Pin No.	Pin Name	I/O	Description
189	VDD_2.5	–	2.5-V supply voltage for core logic.
190	RESERVED	I	Tie to VSS or VDD_3.3.
191	VSS	–	Ground for core logic and I/O signals.
192	VDD_3.3	–	3.3-V supply voltage for I/O signals.
193 ~ 196	RESERVED	I	Tie to VSS or VDD_3.3.
197	HDATA7	I/O	HDATA[7] is the 8-bit bi-directional host data bus through which the host writes data to the decoder Code FIFO. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[7].
198	VSS	–	Ground for core logic and I/O signals.
199	HDATA6	I/O	HDATA[6 ~ 2] is the 8-bit bi-directional host data bus through which the host writes data to the decoder Code FIFO. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[6 ~ 2].
200	HDATA5	I/O	
201	HDATA4	I/O	
202	HDATA3	I/O	
203	HDATA2	I/O	
204	VDD_3.3	–	3.3-V supply voltage for I/O signals.
205	VSS	–	Ground for core logic and I/O signals.
206	HDATA1	I/O	HDATA[1, 0] is the 8-bit bi-directional host data bus through which the host writes data to the decoder Code FIFO. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[1, 0].
207	HDATA0	I/O	
208	$\overline{CS}$	I	Host chip select. Host asserts $\overline{CS}$ to select the decoder for a read or write operation. The falling edge of this signal triggers the read or write operation.

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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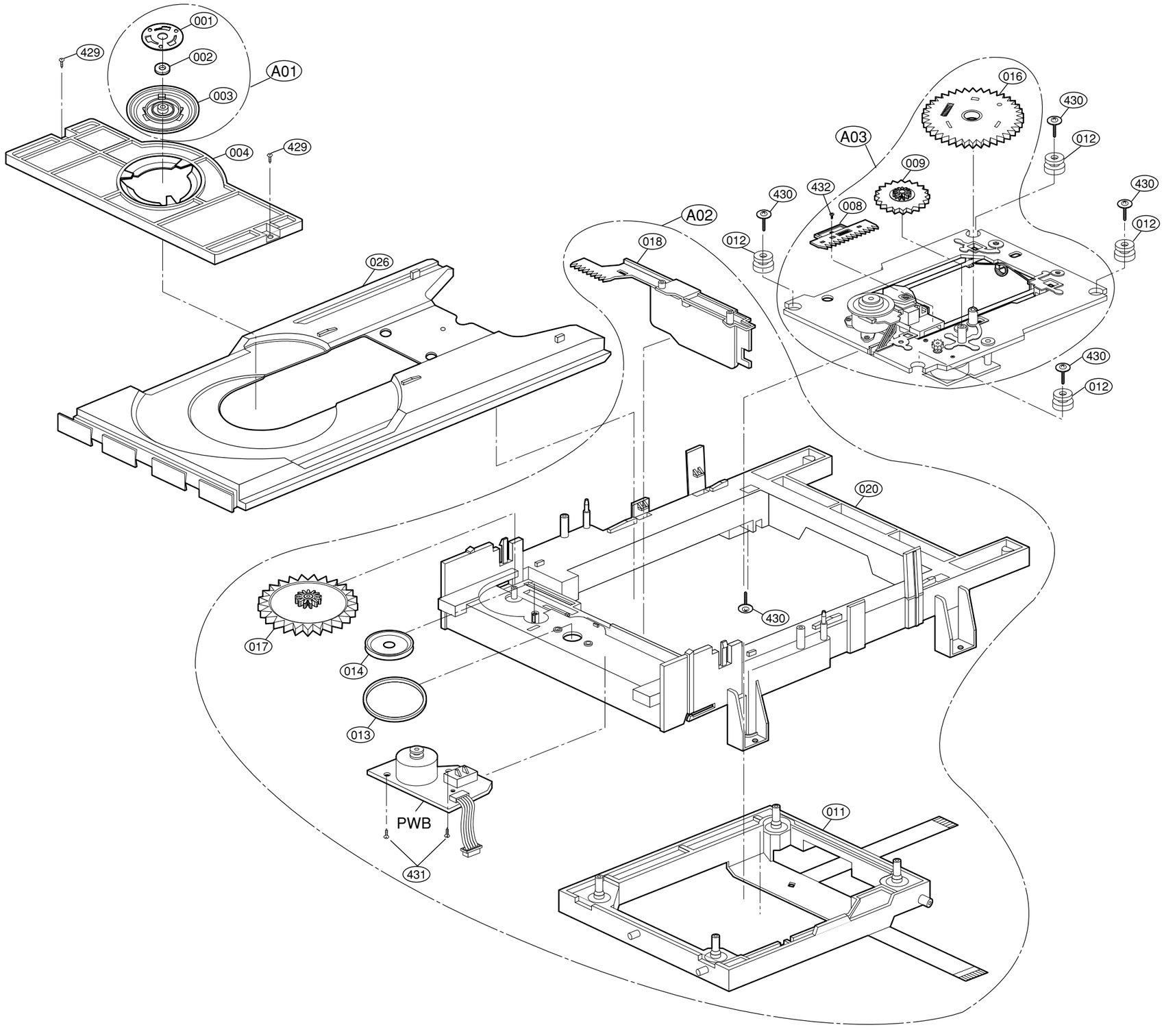
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		O	250	S1-10R-018-4Q0	CASE,TOP	a	.	.
		O	250	S1-10R-018-4Q0	CASE,TOP	.	b	c
		X	260	S1-41R-003-9C0	CHAS ASSY,MAIN	a	b	.
		X	260	S1-41R-003-9G0	CHAS ASSY,MAIN	.	.	c
		X	260	S1-41R-003-9E0	CHAS ASSY,MAIN	.	.	.
		O	275	S9-30R-018-3A0	HOLDER MAIN PCB	a	b	c
		O	280	S7-21R-F23-2A0	PANEL ASSY,FRONT	a	.	.
		O	280	S7-21R-F23-2F0	PANEL ASSY,FRONT	.	b	c
		O	280	S7-21R-F23-2B0	PANEL ASSY,FRONT	.	.	.
		O	283	S5-81R-T00-6C0	DOOR ASSY,TRAY	a	.	.
		O	283	S5-81R-T00-6D0	DOOR ASSY,TRAY	.	b	c
		X	285	S3-01R-M00-4B0	PLATE ASSY	a	b	c
	!	O	300	S4-10R-CHR-02C	POWER CORD	a	b	.
	!	O	300	S4-10R-LHR-02E	POWER CORD	.	.	c
		X	332	S3-00R-M01-8A0	PLATE MAIN	a	b	c
		O	452	S3-530-51A-000	SCREW,SPECIAL	a	b	c
		O	462	S5-308-5E0-000	SCREW,+4-10	a	b	c
		O	463	S3-530-51G-000	SCREW,DRAWING + 2 3-8	a	b	c
		O	465	S3-530-46K-000	SPECIAL SCREW 3-10 B.K	a	b	c
		O	467	S3-530-46N-000	SPECIAL SCREW 3-8 BK	a	b	c

						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		X	A00	S7-21R-H03-22A	DECK ASSY,VIDEO DP-4RM	a	b	c

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

DVD MECHANISM EXPLODED VIEW 1/1



DVD MECHANISM PARTS LIST -1/1

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		O	001	S3-00R-054-7A0	PLATE CLAMP	a	b	c
		X	002	S0-16H-101-6B0	CLAMP MAGNET 8,10-5,1-1.5	a	b	c
		O	003	S8-60R-001-3A0	CLAMP UPPER	a	b	c
		O	004	S9-30R-017-1A0	HOLDER CLAMP	a	b	c
		O	008	S4-70R-004-7A0	GEAR ASSY RACK	a	b	c
		O	009	S4-70R-005-3A0	GEAR MIDDLE	a	b	c
		O	011	S2-11R-002-1D0	FRAME ASSY UP/DOWN(DP2,RW)	a	b	c
		X	012	S0-40R-004-7A0	RUBBER REAR	a	b	c
		O	013	S4-00R-000-6A0	BELT LOADING	a	b	c
		O	014	S4-70R-005-5A0	GEAR PULLEY	a	b	c
		X	015	S8-71R-441-5B0	PWB(PCB) ASSY,TOTAL DP-4 LOAD	a	b	c
		O	016	S4-70R-005-0A0	GEAR ASSY FEED	a	b	c
		O	017	S4-70R-005-6A0	GEAR LOADING	a	b	c
		O	018	S9-74R-002-3A0	GUIDE UP/DOWN	a	b	c
		X	020	S0-40R-002-4A0	BASE MAIN	a	b	c
		O	026	S3-90R-000-5A0	TRAY DISC	a	b	c
		O	429	SS-ZZR-001-2A0	SCREW,B-TITE	a	b	c
		O	430	SS-ZZH-100-3A0	SCREW,+D2.0-6MM	a	b	c
		O	431	SS-ZZH-100-7B0	SCREW,2.0-6	a	b	c
		O	432	SS-ZZR-001-1A0	SCREW,MACHINE	a	b	c
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		O	A01	S8-61R-001-3B0	CLAMP ASSY,DISC	a	b	c
		O	A02	S0-41R-003-0B0	BASE ASSY MAIN(DP-4RM,BLDC)	a	b	c
		O	A03	S0-41R-002-9B0	BASE ASSY SLED(DP-4RM,BLDC)	a	b	c

OTHER PARTS LIST -1/1

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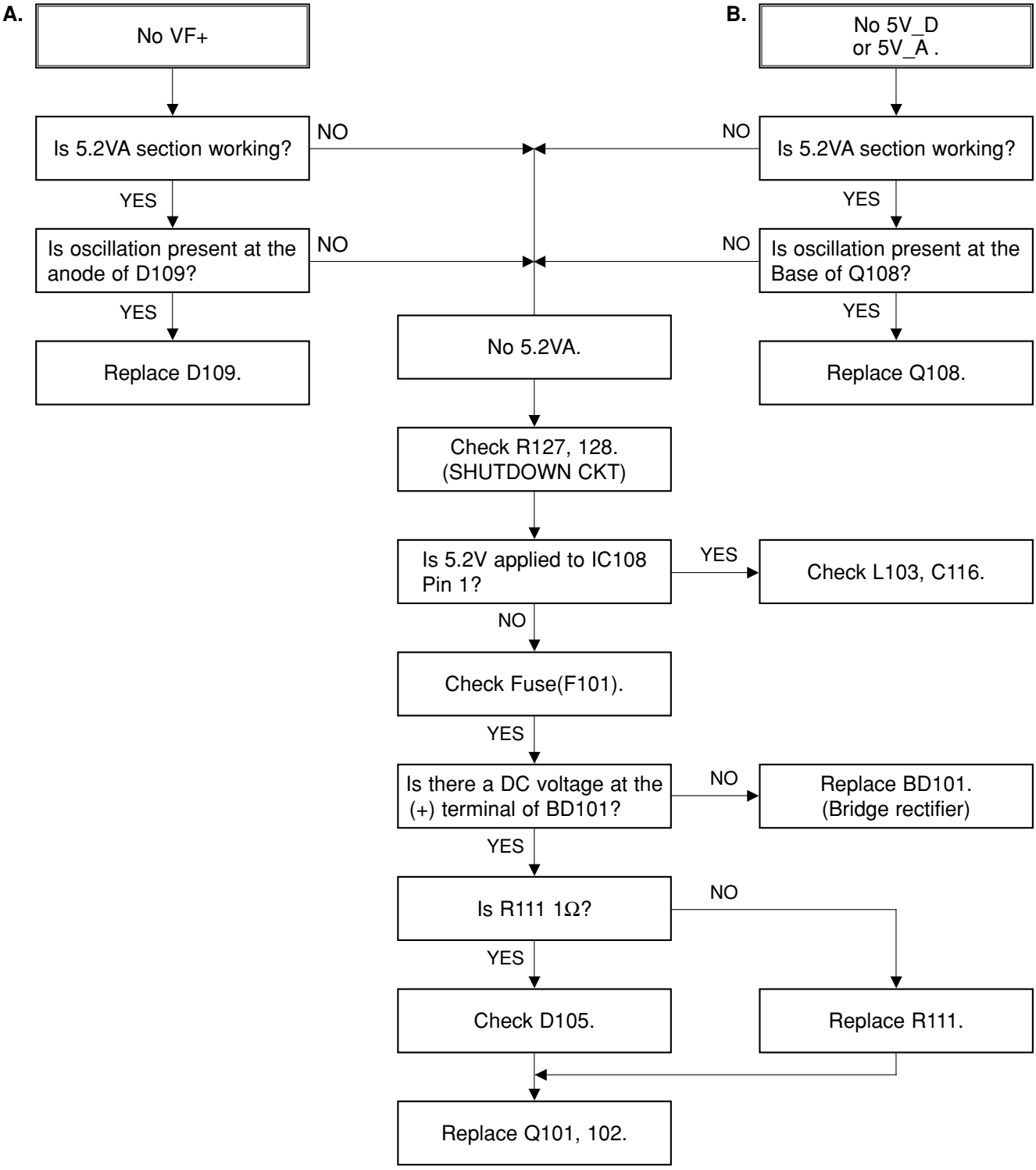
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

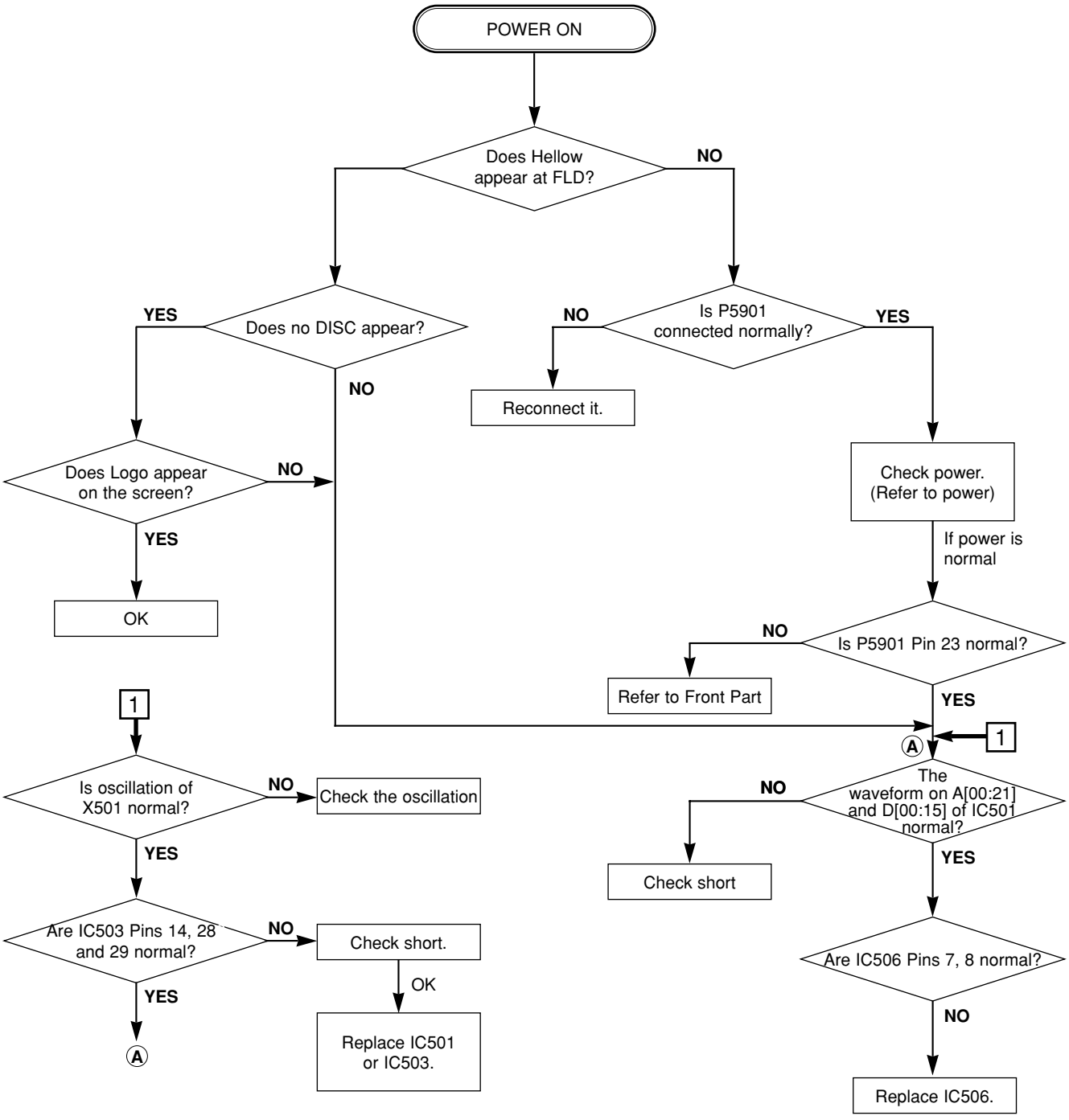
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						XD-DV480 EZBC	XD-DV480 EZNHC	XD-DV480 KNHC
		X		S9-205-3B0-000	BAG,SOFT(MIDI)	a	b	c
		X		S9-20R-E03-4A0	PACKING,CASING BAV-13	a	b	c
		X		S8-90R-H31-3K0	BOX,DVA412	a	.	.
		X		S8-90R-H76-3J0	BOX,DVA412	.	b	.
		X		S8-90R-H76-3H0	BOX,DVA4121E HA4UAA	.	.	c
		X		S8-90R-H76-3L0	BOX,DVA414	.	.	.

1. Power(SMPS) Circuit

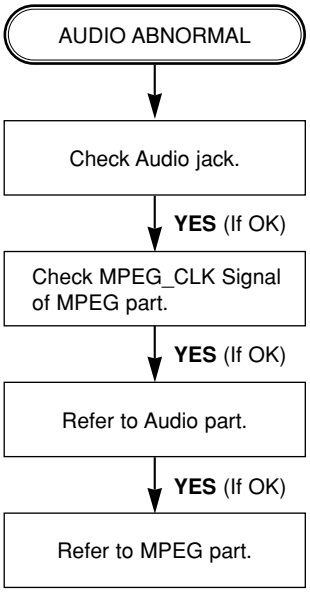


2. µ-COM Circuit

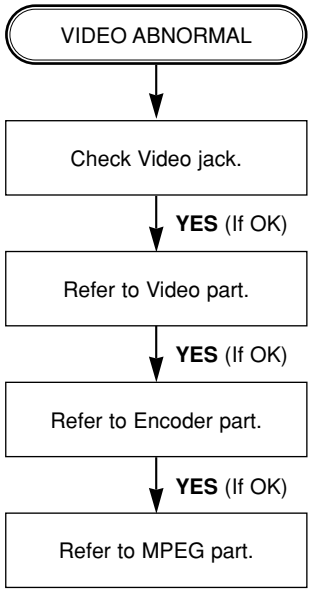
A. No Power



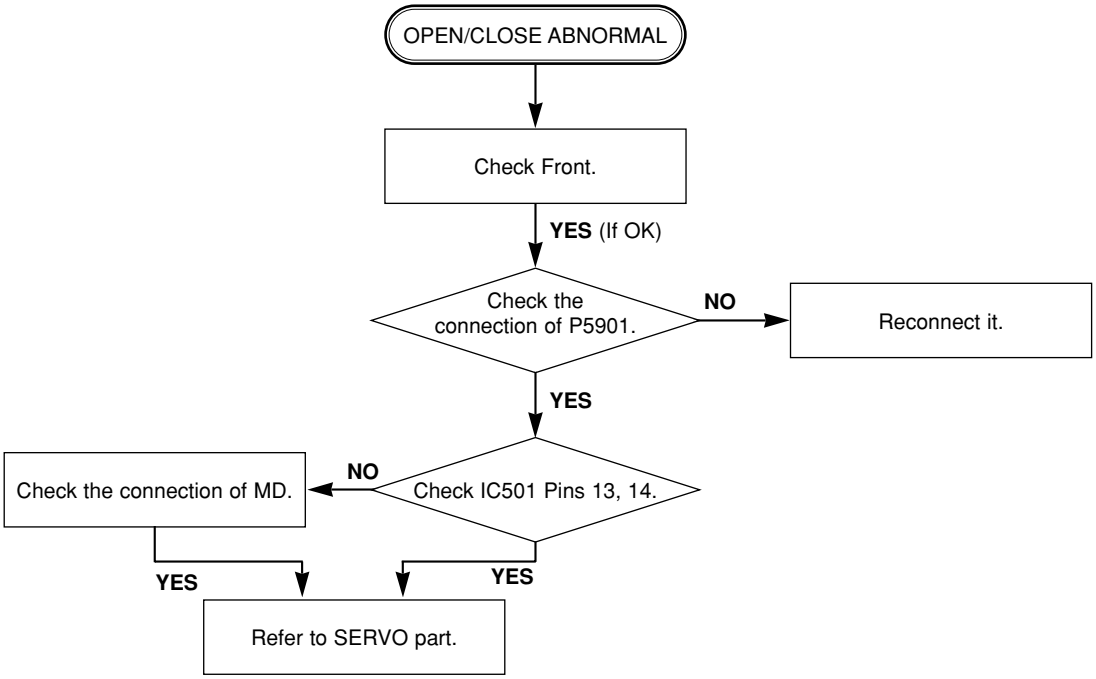
B. Audio abnormal



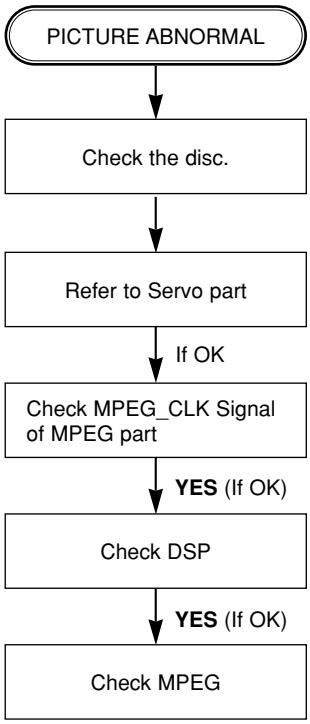
C. Video abnormal



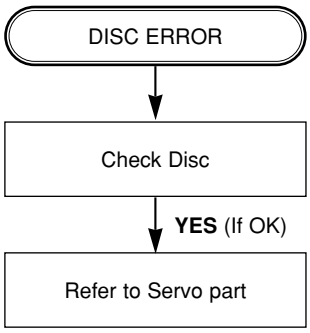
D. Open/Close abnormal



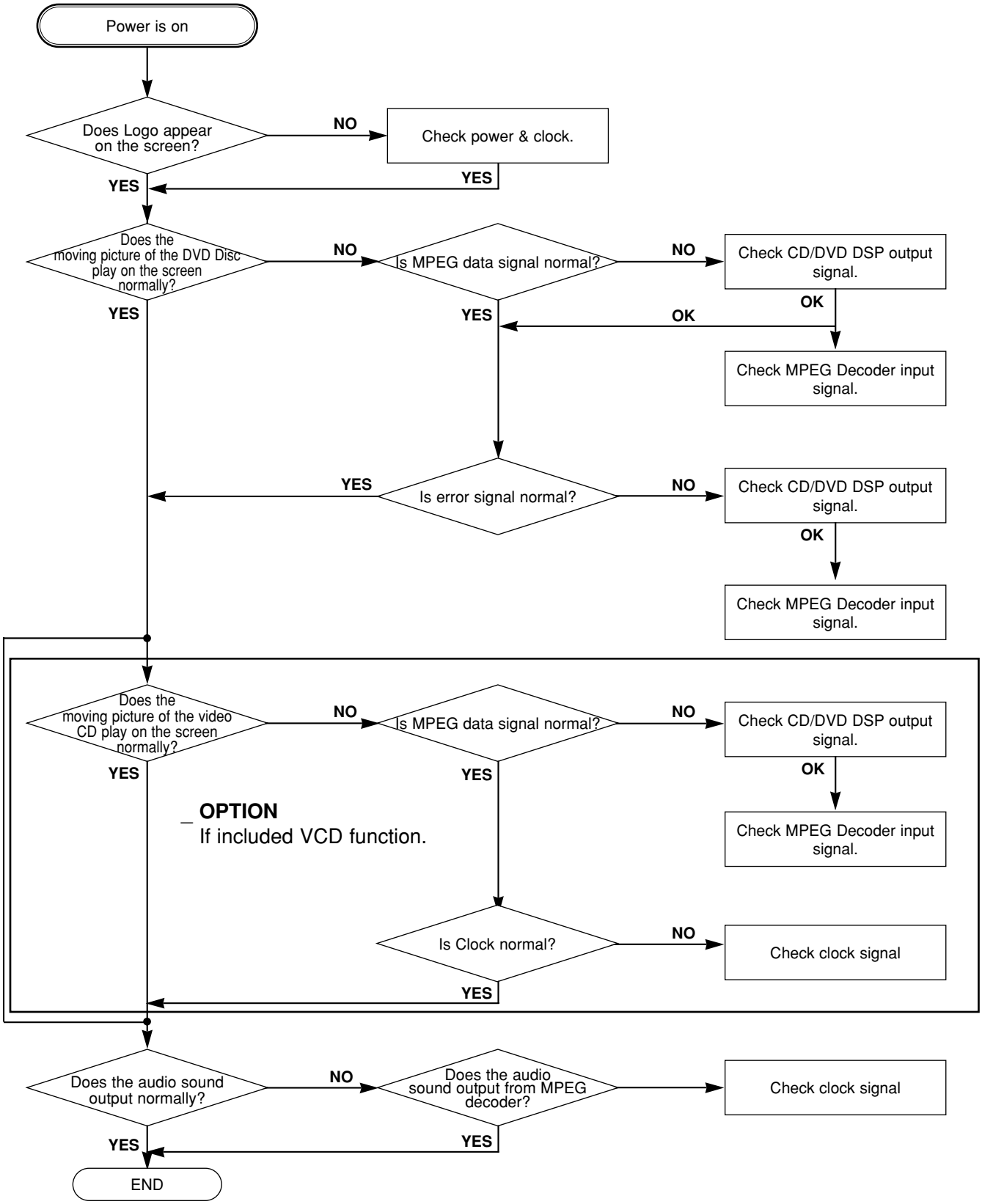
E. Picture abnormal



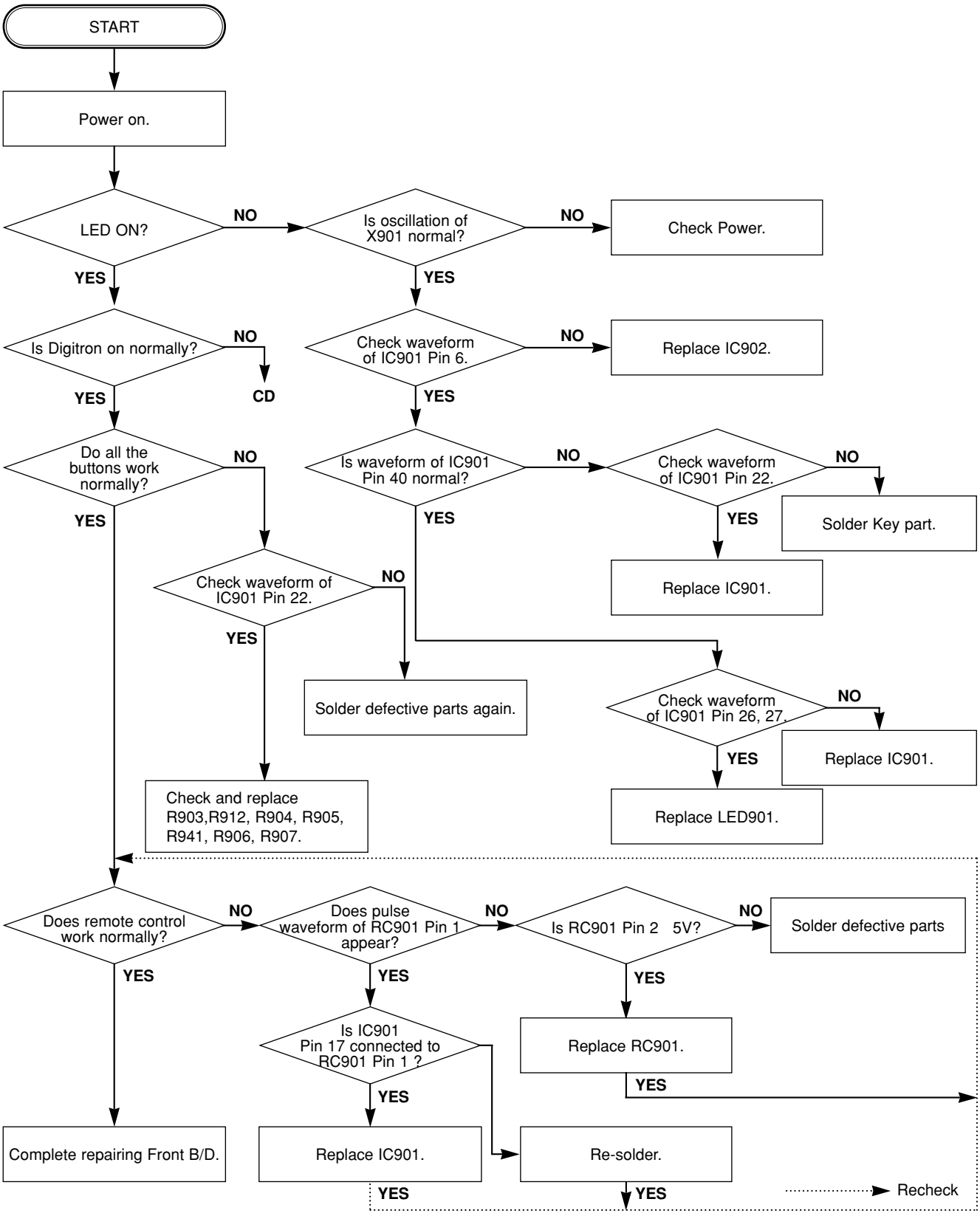
F. Disc Error



3. MPEG Circuit

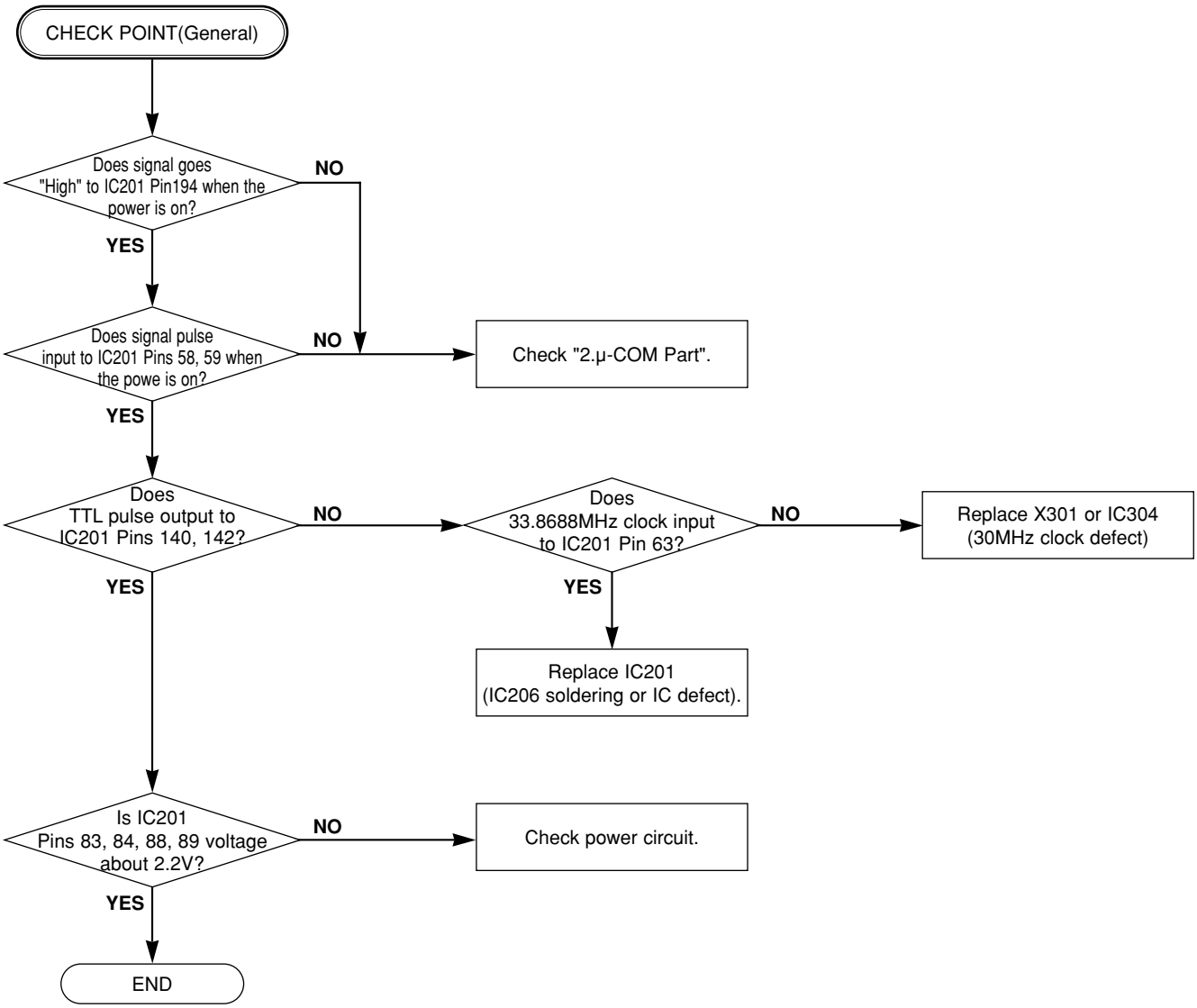


4. Front Circuit

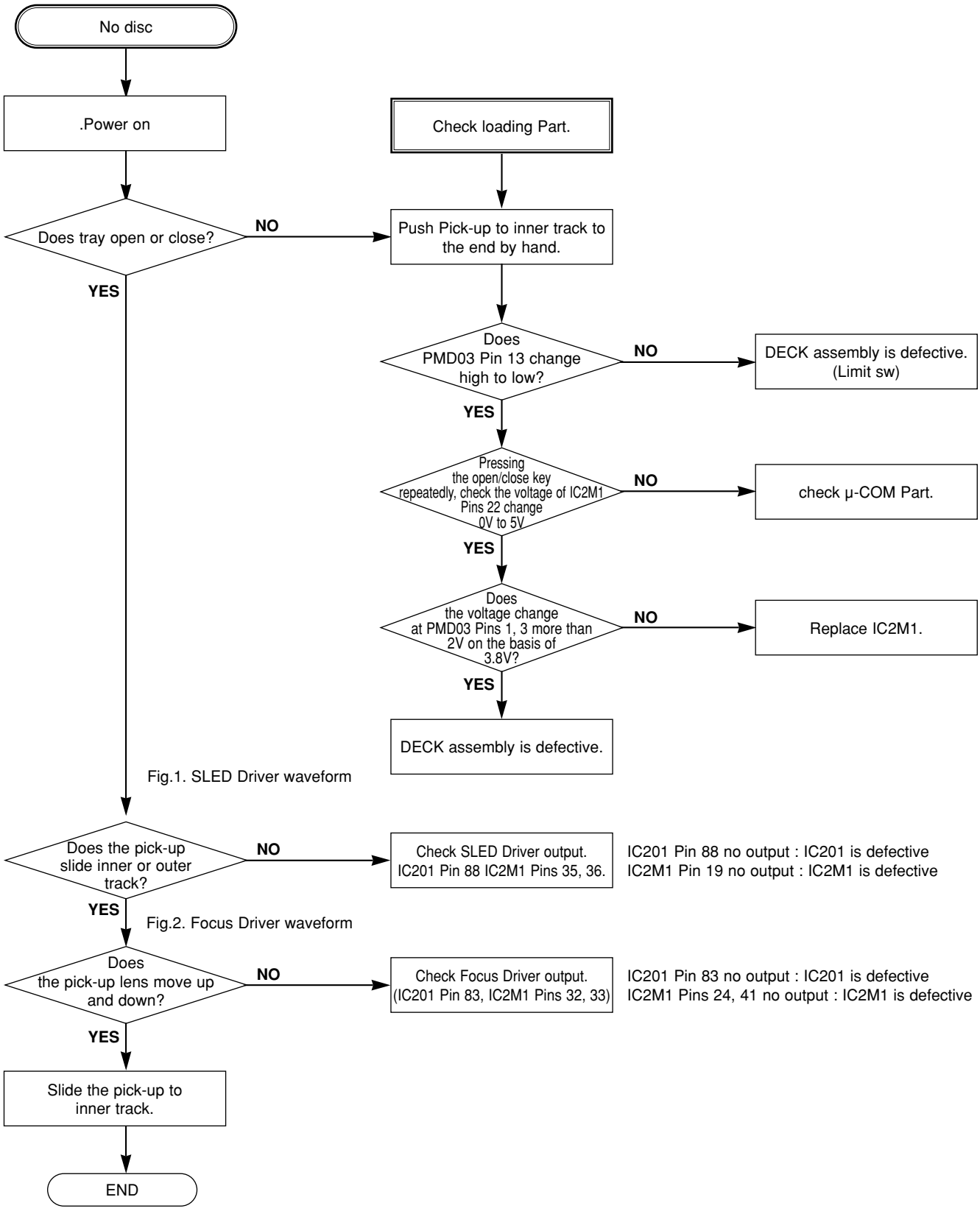


5. RF/Servo Circuit

A.


CHECK POINT(General)
Does signal goes "High" to IC201 Pin194 when the power is on?
NO
YES
Does signal pulse input to IC201 Pins 58, 59 when the powe is on?
NO
Check "2.µ-COM Part".
YES
Does TTL pulse output to IC201 Pins 140, 142?
NO
Does 33.8688MHz clock input to IC201 Pin 63?
NO
Replace X301 or IC304 (30MHz clock defect)
YES
YES
Replace IC201 (IC206 soldering or IC defect).
Is IC201 Pins 83, 84, 88, 89 voltage about 2.2V?
NO
Check power circuit.
YES
END

B.


No disc
.Power on
Does tray open or close?
NO
YES
Check loading Part.
Push Pick-up to inner track to the end by hand.
Does PMD03 Pin 13 change high to low?
NO
DECK assembly is defective. (Limit sw)
YES
Pressing the open/close key repeatedly, check the voltage of IC2M1 Pins 22 change 0V to 5V
NO
check µ-COM Part.
YES
Does the voltage change at PMD03 Pins 1, 3 more than 2V on the basis of 3.8V?
NO
Replace IC2M1.
YES
DECK assembly is defective.
Fig.1. SLED Driver waveform
Does the pick-up slide inner or outer track?
NO
Check SLED Driver output. IC201 Pin 88 IC2M1 Pins 35, 36.
IC201 Pin 88 no output : IC201 is defective
IC2M1 Pin 19 no output : IC2M1 is defective
YES
Fig.2. Focus Driver waveform
Does the pick-up lens move up and down?
NO
Check Focus Driver output. (IC201 Pin 83, IC2M1 Pins 32, 33)
IC201 Pin 83 no output : IC201 is defective
IC2M1 Pins 24, 41 no output : IC2M1 is defective
YES
Slide the pick-up to inner track.
END

C.

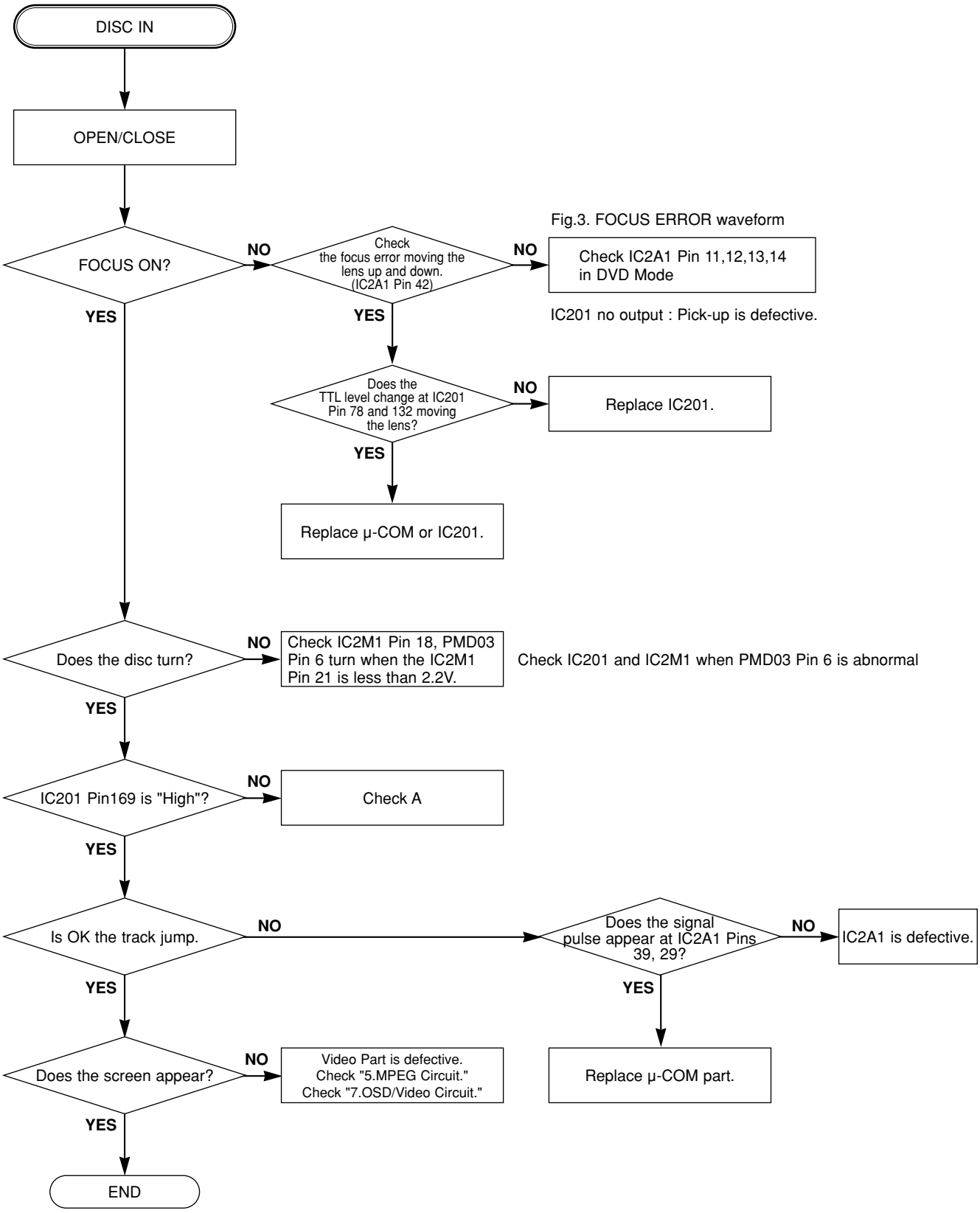
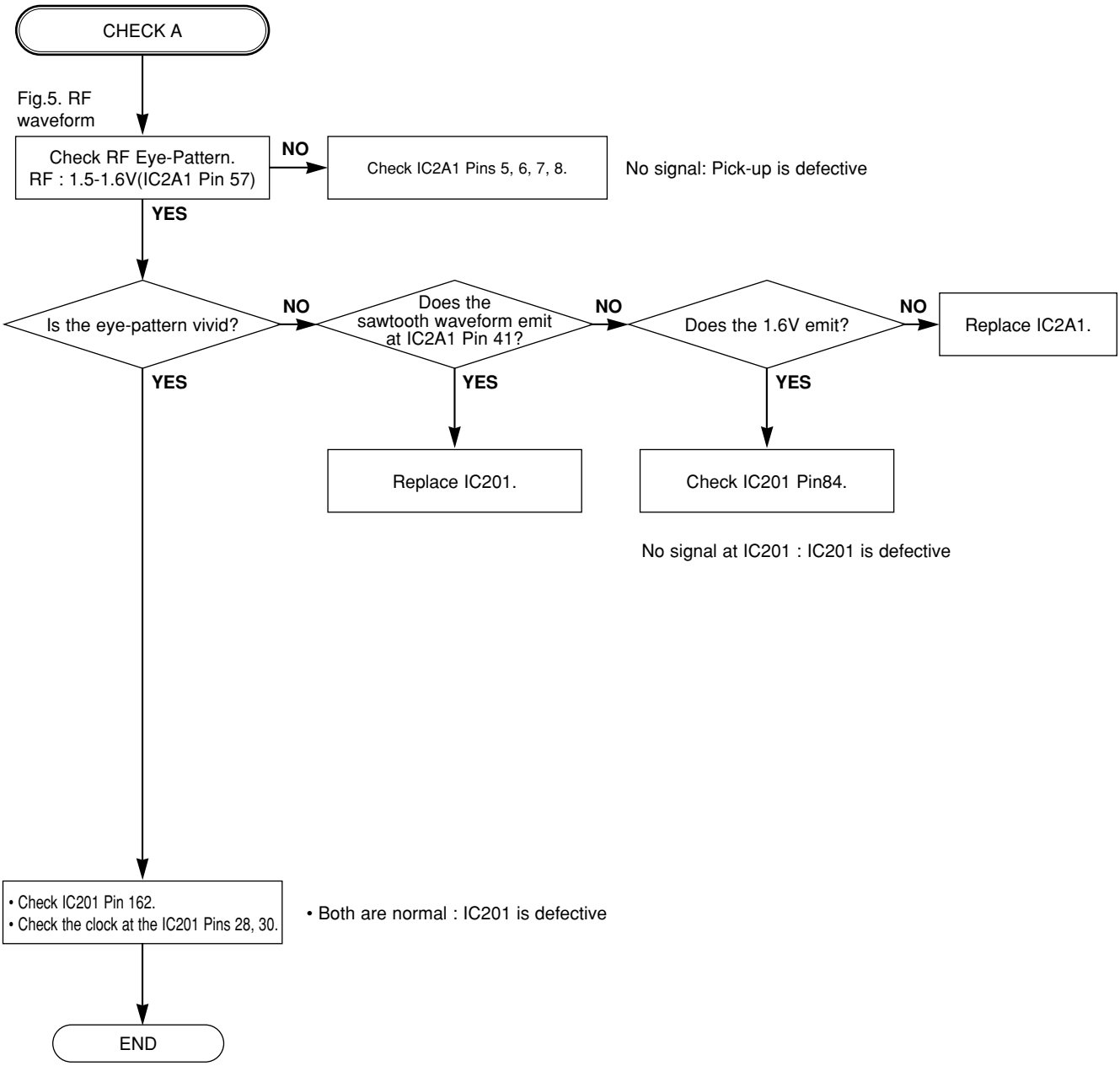


Fig.3. FOCUS ERROR waveform

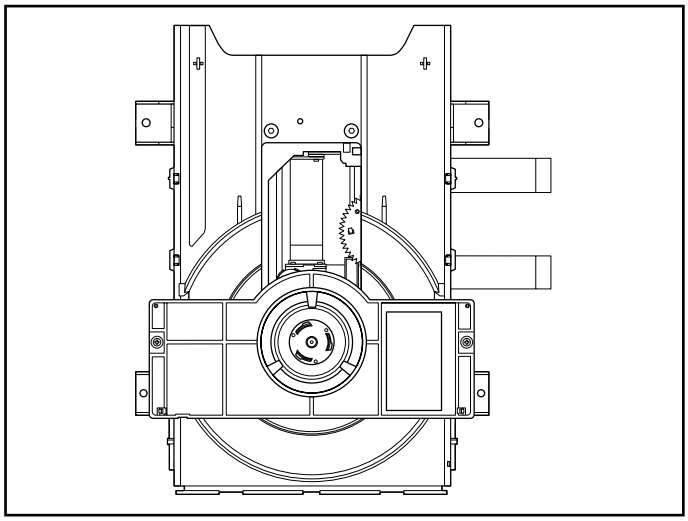
IC201 no output : Pick-up is defective.

Check IC201 and IC2M1 when PMD03 Pin 6 is abnormal

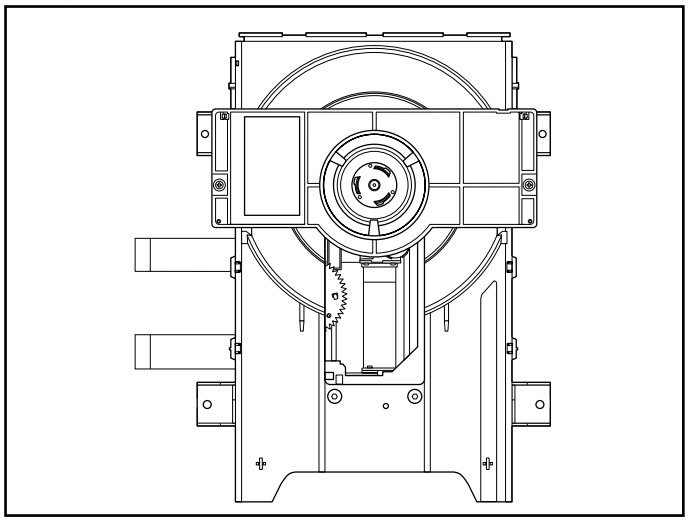
D.


CHECK A
Fig.5. RF waveform
Check RF Eye-Pattern.
RF : 1.5-1.6V(IC2A1 Pin 57)
NO
Check IC2A1 Pins 5, 6, 7, 8.
No signal: Pick-up is defective
YES
Is the eye-pattern vivid?
NO
Does the sawtooth waveform emit at IC2A1 Pin 41?
NO
Does the 1.6V emit?
NO
Replace IC2A1.
YES
YES
YES
Replace IC201.
Check IC201 Pin84.
No signal at IC201 : IC201 is defective
• Check IC201 Pin 162.
• Check the clock at the IC201 Pins 28, 30.
• Both are normal : IC201 is defective
END

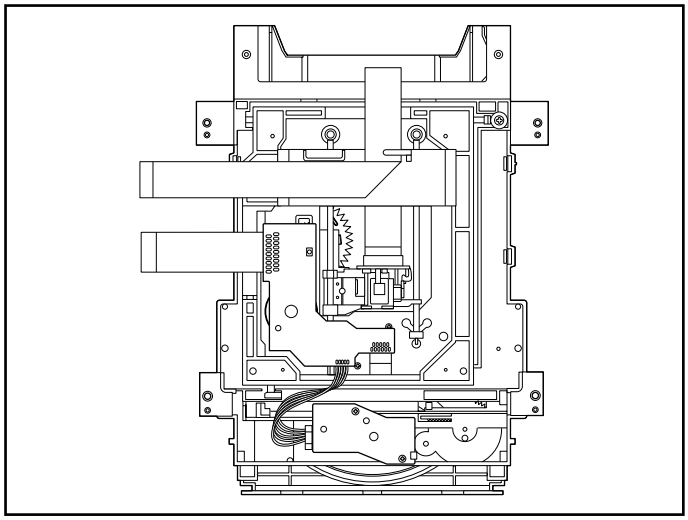
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



Procedure Starting No.		Parts	Fixing Type	Disassembly	Figure
	1	Holder Clamp	2 Screws, 2 Locking Tabs		4-1
1	2	Clamp Assembly Disc			4-1
1, 2	3	Plate Clamp			4-1
1, 2, 3	4	Magnet Clamp			4-1
1, 2, 3, 4	5	Clamp Upper			4-1
1	6	Tray Disc			4-2
1, 6	7	Base Assembly Sled			4-3
1, 2, 6	8	Gear Assembly Feed	4 Screws, 1 Connector 1 Locking Tabs		4-3
1, 2, 6, 8	9	Gear Middle			4-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		4-3
1, 2, 7	11	Rubber Rear			4-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	4-4
1, 2	13	Belt Loading	1 Locking Tab		4-4
1, 2 ,13	14	Gear Pulley			4-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		4-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			4-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	4-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main	2 Locking Tabs		4-4

Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

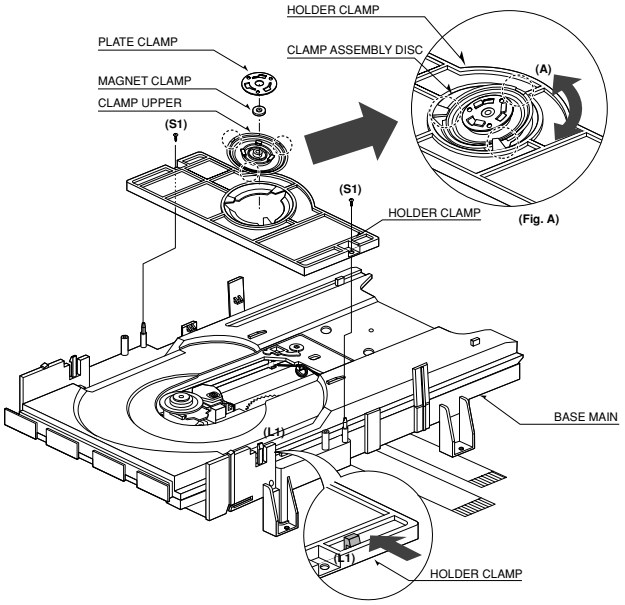


Fig. 4-1

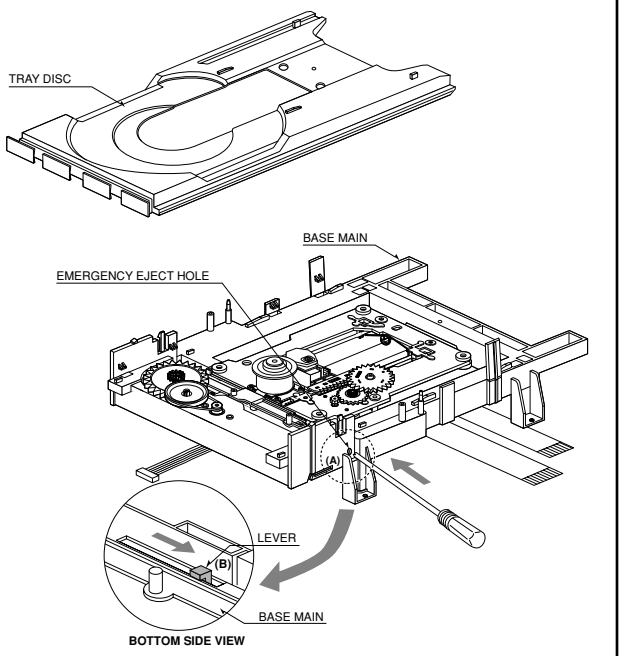


Fig. 4-2

1. Holder Clamp (Fig. 4-1)

1) Release 2 Screws(S1).
2) Unhook 2 Locking Tabs(L1).
3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

1) Place the Clamp Assembly Disc as Fig. (A)
2) Lift up the Clamp Assembly Disc in direction of arrow(A).
3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper

2. Tray Disc (Fig. 4-2)

1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
2) Pull the Tray Disc until it is separated from the Base Main completely.

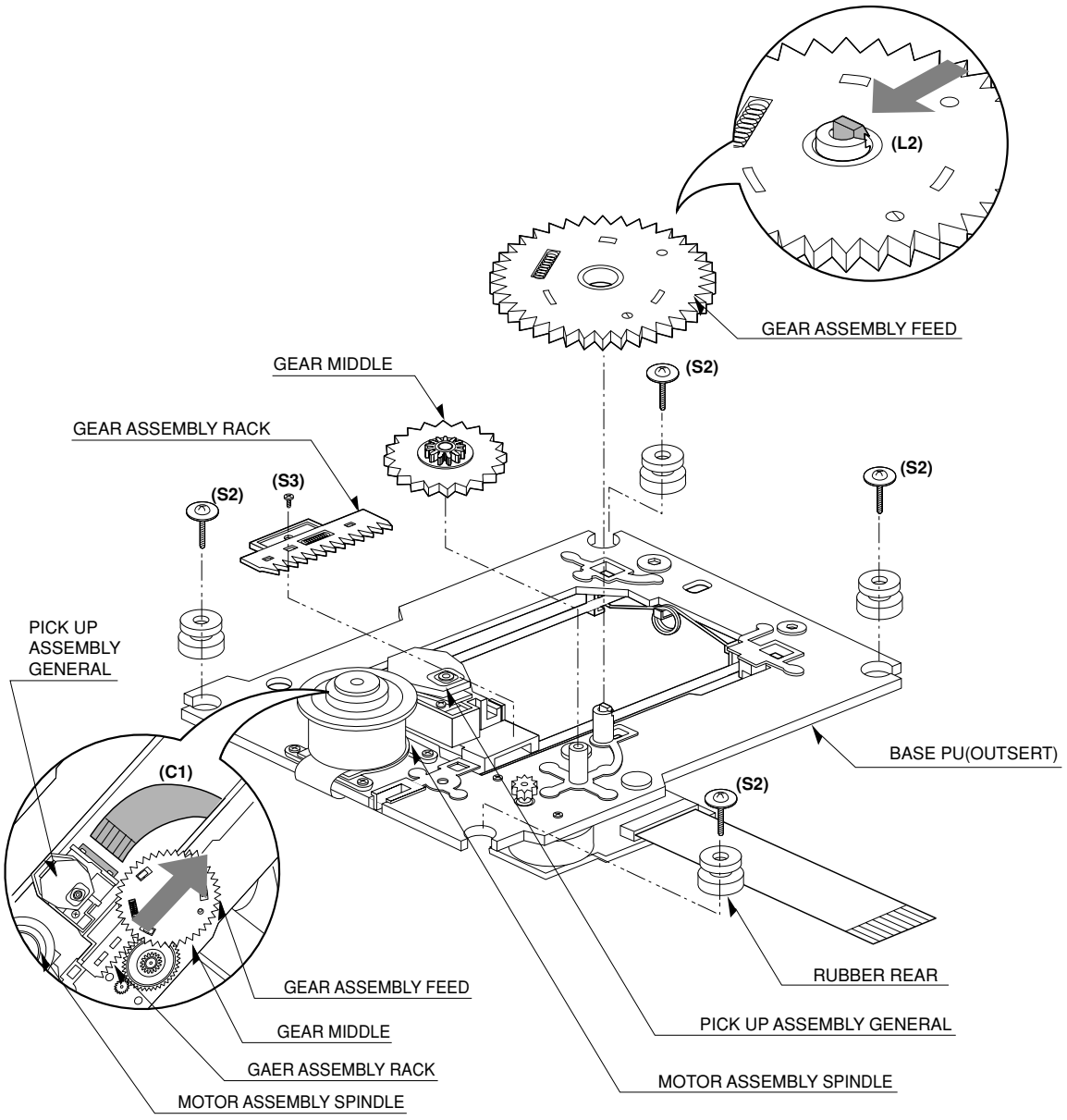


Fig. 4-3

3. Base Assembly Sled (Fig. 4-3)

1) Release 4 Screw(S2).
2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

1) Unhook the Locking Tab(L2) in direction of arrow.

3-2. Gear Middle

3-3. Gear Assembly Rack

1) Release the Scerw(S3)

4. Rubber Rear (Fig. 4-3)

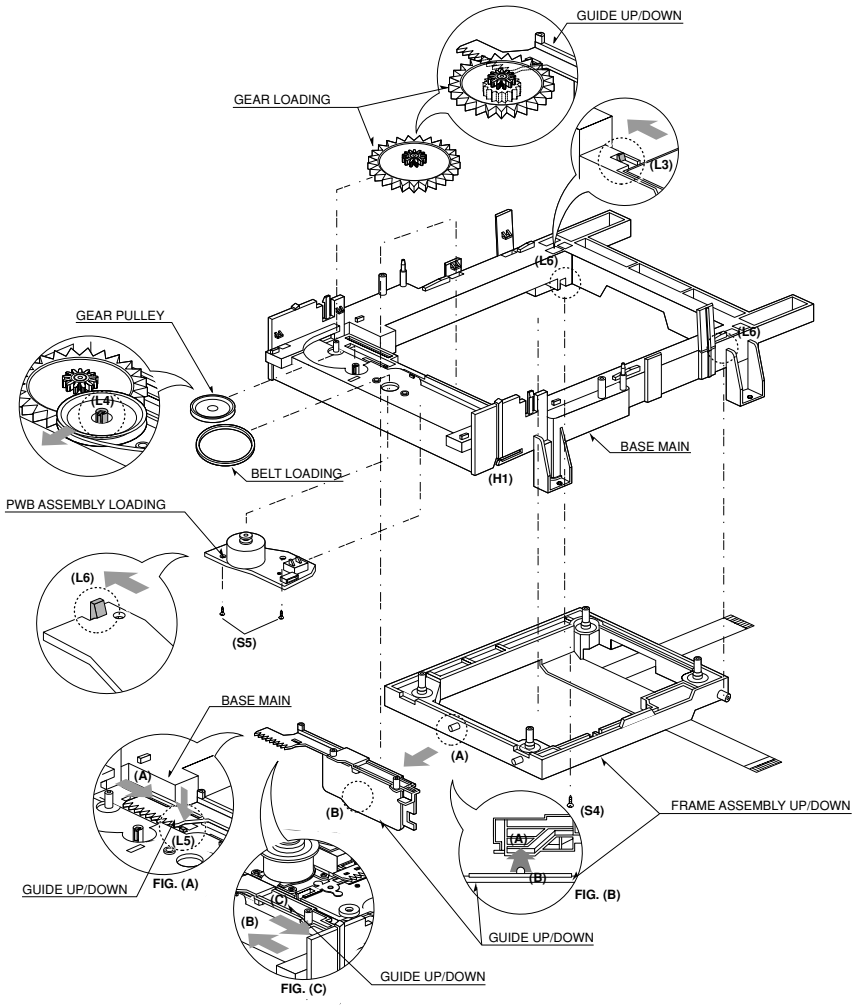


Fig. 4-4

5. Frame Assembly Up/Down

Note

Put the Base Main face down(Bottom Side)

1) Release the Screw(S4)
2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 4-4)

Note

Put the Base Assembly Main on original position(Top Side)

7. Gear pulley (Fig. 4-4)

1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 4-4)

9. Guide Up/Down (Fig. 4-4)

1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading

Note

Put the Base Main face down(Bottom Side)

1) Release 2 Screws(S5)
2) Unkool the Loading Motor Connector (C2) from the Hook (H1) on the Base Main.
3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 4-4)

1. Tools and Fixtures for SVC

• For SVC Program Down-Load

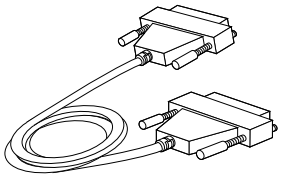


Fig.1. Printer Cable

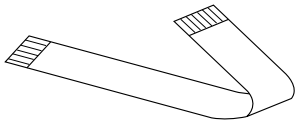


Fig.2. FFC Cable (15 pin)

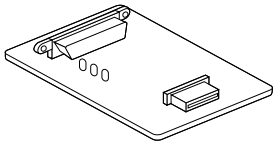


Fig.3. Jig Board

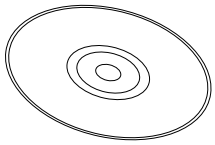


Fig.4. Deviation Disc (0.8mm)

• For T-Skew and R-Skew Adjustment

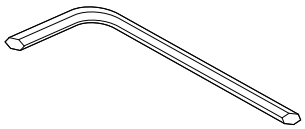


Fig.5. L-Wrench(3mm)

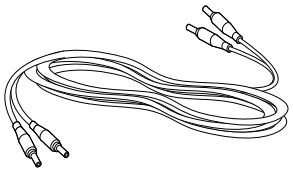


Fig.6. RCA Jack

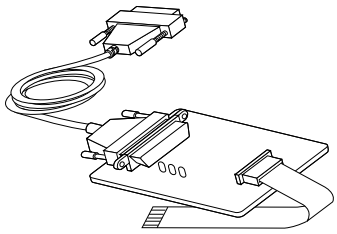


Fig.7. Connecting Method

2. Install Process

1. Connect Fig. 1, 2, 3 as Fig. 7.
2. Plug out the Power cord of DVD set.
3. Connect FFC Cable(Fig.2) to the Connector on DVD Set(Fig.8)
4. Connect Printer Cable(Fig.1) to the P.C.Printer Port (LPT1).
5. Plug in the DVD Power cord.
6. Press the Menu key on Remocon.
7. Confirm No.1 LED(RED Color) of Jig board is ON. (Fig.9)
8. Perform The S/W for Down-load at P.C.
9. Open the Program File for Adjusting(Fig.10)
10. Click the Down-load Icon and perform Program Down-load.
11. Displayed remaining time.
12. Confirm LED No.1(RED) and No.2(GREEN) is ON.
13. Plug out the DVD Set Power cord.
14. Disconnect the FFC Cable.

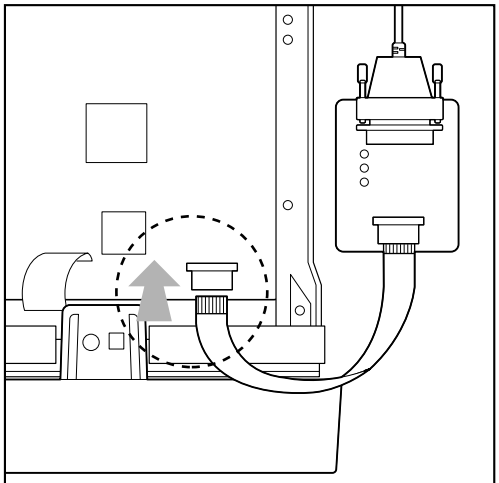


Fig.8. FFC Cable Connecting

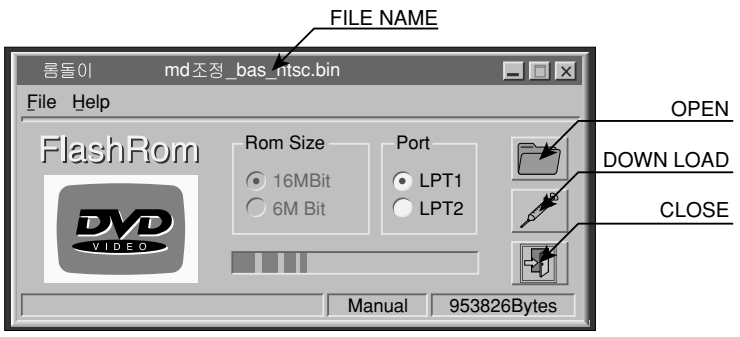


Fig.10. Adjusting Program File Open

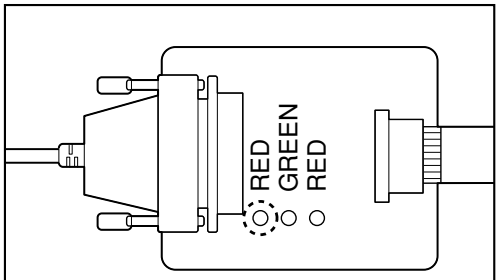


Fig.9. Jig Board LED Condition

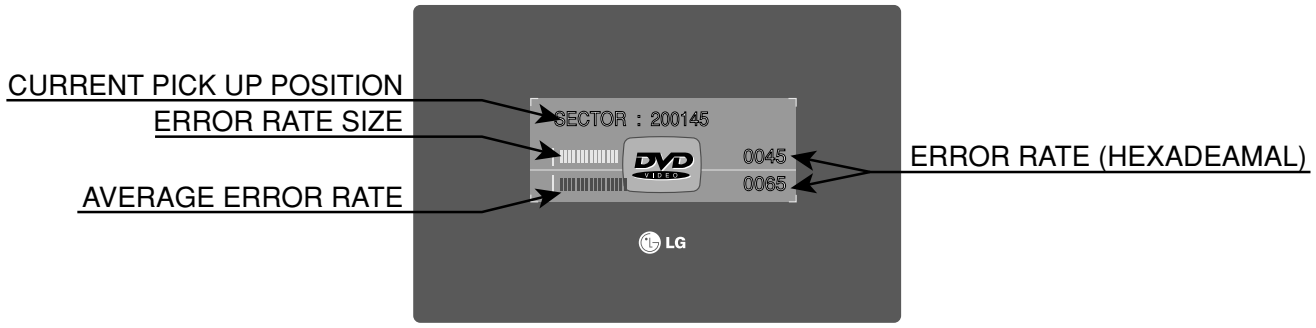


Fig.11. Adjusting Screen Display

3. Adjustment Procedure

1. Insert Disc(Only Open/Close Key Pressing)
2. Wait Until the Sector Display is about 200,000 (Fig.11)
3. Adjust R-Skew adjusting Point until the Error rate has Minimum rate with L-wrench (3mm).
4. Adjust T-Skew Adjusting Point until the Error rate has Minimum rate.
5. Repeat No. 3, 4 adjusting procedure until the Error rate have Minimum rate.
6. Error rate; SVC-3561 Disc=below 30 and TDV-533 Disc=below 100. If not, Please confirm Play ability on screen.

You can watch the screen when pressing the Stop key after the Adjusting is finished, Then perform Play and Scan/Skip operation at Chapter1 and Chapter16 and confirm screen condition, normal or abnormal.

• Please obtain these software for Adjusting through our Global Cyber Service Center(GCSC).

• The location is http://biz.lgservice.com
  → Web Site for End users
  → Software updates
  → Product : DVD Player
  → Search.

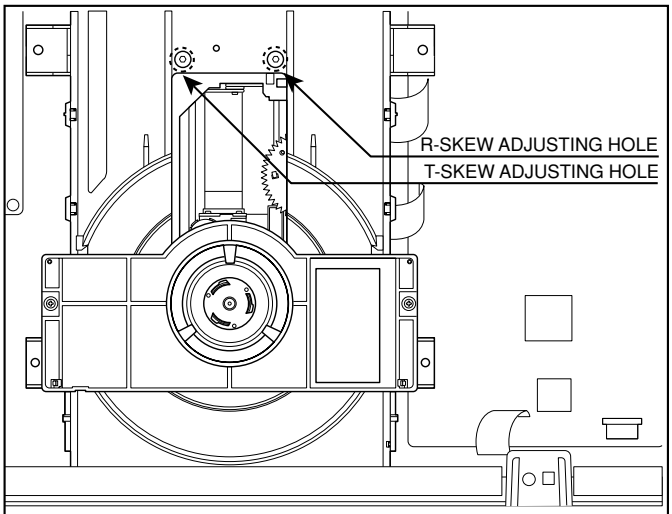


Fig.12. Adjusting Method

アイワ株式会社〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
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